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A CHECK LIST OF PORTO RICAN FUNGI AND A HOST INDEX.1

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INTRODUCTION.

Published information concerning the fungi of Porto Rieo is scattered through a considerable number of articles, which have been issued to a large extent outside the Island, so as not to be readily available to those attempting the study of this group of plants locally. For this reason it has been considered desirable to compile and present in one publication a list of all fungi reported from or known to occur in Porto Rico, together with the host plants or substrata on which the various species occur. For convenience of reference an index to the hosts is also given, as well as a list of such publications on island species as have been encountered.

It is very clearly realized that the species here listed do not by any manner of means represent the complete fungus flora of the Island. The list may rather be considered as a starting point for more intensive work, and it is hoped that the publication and distribution of this preliminary paper may stimulate interest among local collectors, and so bring about important additions to the list. It should be easily possible to double the number of species here reported. In fact, the working up of the undetermined material now in the herbarium of this Station will add considerably to the number of species known, and similarly the as yet unnamed portions of the collections of Dr. Stevens and other collectors give promise of many species new to the Island.

History of work with Porto Rican fungi.

The earliest recorded collection of the fungi of Porto Rico was made in 1854 by Carl Schwanecke, for the most part in the vicinity

¹ Exclusive of the lichens or algicolous fungi.

of Humacao, and the specimens were determined by Klotzsch, who listed them in Linnæa (50).¹ It was not until 1884–87 that further collections were made, during which period P. Sintenis visited various parts of the Island. The fungi gathered by him were worked over by J. Bresadola, P. Hennings, and P. Magnus and their determinations were published in 1893 (76). A recapitulation of these two lists was given by Heller (35) in 1900.

The work of these two collectors was apparently all that was accomplished during the time of Spanish sovereignty. As far as known to the writer the late Dr. Stahl made no mention of fungi in his writings, although he did serve at one time on a royal commission appointed to study a cane disease.

Since the change in government in 1898 the collecting and studying of the fungi has been carried on by workers connected with the experiment stations, and by a number of northern botanists who have made collecting trips to the Island.

Since the year 1903, the reports of the Federal Experiment Station at Mayagüez have contained references to various fungi from an economic standpoint. These have included notes by Barrett (6–9) on diseases of oranges, yautía, vegetables and other crops, by Henricksen (36) on diseases of vegetables, and by Fawcett (22–32) on diseases of coffee, sugar cane, citrus, banana, cacao, and vanilla. The latter has in addition to his annual reports as pathologist of the Station published a bulletin on coffee diseases (31), and a short article on Pellicularia (28). Some of the entomogenous fungi have been mentioned by Tower (100). A banana disease due to a vascular fungus parasite has been studied by Brandes (10, 11) of the same institution.

Work on the fungi as disease-producing agents of sugar cane was immediately taken up at the experiment station of the Sugar Producers' Association following its establishment in 1910. Reports of this work were issued from time to time as publications of the station (38–48). Following the transfer of the institution to the Insular Government, studies were begun on diseases of other crops in addition to the sugar-cane investigations. Results obtained have been issued in the various station publications prepared by the present pathologist (84–96). These have been concerned with diseases of citrus, vegetables, and minor economic plants.

The first of the American botanists to collect fungi, at least to any great extent, was A. A. Heller, who together with Mrs. Heller

¹ Figures in Parenthesis refer to "Literature cited," p. 250.

made an extensive collecting trip during the early part of 1900. The determinations of their specimens, including seventeen new species, were made by Prof. F. S. Earle (19). Some time later the same mycologist published additional notes on the same collection, for the most part as new species (21). Professor Earle himself (20) made a visit of exploration in 1903, giving most attention to fungi attacking economic plants.

Dr. G. P. Clinton, at the request of the Experiment Station, spent some time on the Island in 1904, in connection with a threatened outbreak of coffee rust, and collected some fungi, particularly the smuts. Prof. E. D. Holway collected rust fungi in about 1910. His specimens are reported upon by Dr. Arthur (3), in connection with the Stevens' collection.

Fungi have been collected to some extent on the various field expeditions of Dr. N. L. Briton, director-in-chief of the New York Botanical Garden, and members of his staff. These specimens have been described or mentioned in the publications of the mycologists of the Garden.

Dr. Bruce Fink of Miami University spent several months in 1915-16 collecting in various parts of the Island, giving particular attention to the lichens and Ascomycetes, but has as yet published only a preliminary paper (33). A report of his findings should very materially add to the number of known species.

During the same year Dr. E. W. Olive of the Brooklyn Botanic Garden, and Prof. H. H. Whetzel of Cornell University, made a very complete collection of the rusts, together with some other fungi. The rusts were worked over and reported by Dr. Arthur (4), and in part by themselves (71).

The most extensive fungus collections have been made by Dr. F. L. Stevens, now of the University of Illinois. These specimens were gathered during the period of his deanship of the College of Agriculture of Porto Rico and during one subsequent trip (79). The number of specimens obtained totaled several thousands. The rusts of this collection have been enumerated by Dr. Arthur (3), and Dr. Stevens and several of his students have worked on other groups (16, 17, 34, 51, 60, 61, 80, 81, 82, 83, 103, 104). Their studies have resulted in a very large number of species being reported as new, particularly in the genera Meliola, Cercospora, Phyllosticta, and Mycosphærella.

An interesting phase of the subject of Porto Rican fungi, and one of no little importance, is that of species connected with certain human diseases. One article only has been seen treating of fungi from this viewpoint, but there doubtless are others. Dr. King in the paper in question (49) mentions Epidermophyton cruris (tinea cruris), Cladosporium Mansoni (black ringworm), and Malassezia tropica (tinea flava), all causing skin diseases.

Acknowledgments.

Acknowledgment must be made for help received during the preparation of this list from a considerable number of sources. Several mycologists have worked over portions of the collections of the Insular Experiment Station and furnished determinations. These have included Dr. F. J. Seaver, and Dr. Wm. A. Murrill, New York Botanical Garden: Dr. E. A. Burt. Missouri Botanical Garden: Prof. C. G. Lloyd; Dr. W. C. Sturgis; and Dr. C. R. Orton, Pennsylvania State College. I am also indebted to Dr. Seaver for permission to use data from a preliminary list of the Porto Rican fungi deposited in the portion of the herbarium of the New York Botanical Garden under his charge, as well as for other favors. Drs. Burt, Sturgis, and Orton and Professor Lloyd have examined and made suggestions as to corrections in portions of the manuscript submitted to them. Mr. H. E. Thomas, formerly of the Mayagüez Experiment Station, has furnished information from his notes.' From Dr. Olive and Professor Whetzel I have received a set of the specimens collected by them during their visit to the Island, in so far as the material has been worked up. This has afforded a considerable amount of additional data.

To Dr. Stevens of the University of Illinois I am particularly indebted for copies of his publications on Porto Rican fungi, and for the loan of a card index of fungi and hosts, based on his collections.

Plan of the work.

It is the aim of the present list to record the fungi reported as occurring in Porto Rico, together with the hosts or substrata, the localities in which they have been collected, the name of the respective collectors, and all bibliographical citations. When the collector has been other than a member of the staff of the Insular Experiment Station, past or present, his name is given in parenthesis following the localities. Semicolons, it will be noted, are used to separate the work of different collectors. Our own collections are cited first, followed by such others as have been made. Where more than one collection has been made in the same locality the earliest in point of

time is given as a rule. In some instances the first collection found in working up the list has been used.

Those who have made the collections represented in the herbarium of the Insular Experiment Station are Mr. John R. Johnston, pathologist 1910–1914, to whom credit is due for initiating not only the herbarium but the other botanical work of the Station; the writer, assistant pathologist 1913–14, pathologist and botanist to date; Mr. R. C. Rose, assistant pathologist 1916–17.

No attempt has been made at a critical study of the species listed. It is realized that many of those given will in the course of time be recombined, reduced to synonomy, or otherwise changed in name, but neither time nor facilities are available here for systematic work of this nature. The system of classification used is entirely one of convenience and has no other significance, either as a proposed new plan, or even as the personal views of the writer.

MYXOMYCETES.1

CERATIOMYXACEÆ.

CERATIOMYXA FRUCTICULOSA (Muell.) Macbr. On rotten wood, Palo Seco.

PHYSARACEÆ.

PHYSARUM CINEREUM (Batsch.) Pers.

Fruiting on living leaves and stems of *Phaseolus vulgaris, Sac*charum officinarum, Lactuca sativa, Vigna unguiculata, and other plants, Río Piedras, Martín Peña, Manatí (48).

PHYSARUM COLUMBINUM (Rost.) Sturgis.

(Tilmadoche compacta [Wing.] McB.) (82).

On rotten wood, Río Piedras.

PHYSARUM COMPRESSUM Alb. & Schw.

On Sugar-cane debris, Cortada (48).

PHYSARUM DIDERMOIDES (Ach.) Rost.

On rotten wood, Río Piedras.

PHYSARUM PUSILLUM (B. & C.) List.

(Physarum nodulosum [Cooke & Balf.] Mass.)

On rotten sacking, and also found fruiting on living sugar-cane leaves, Río Piedras (48).

PHYSARUM VIRIDE (Bull.) Pers.

On rotten wood, Moca, Río Piedras.

¹ The determinations in this group were made for the most part by Dr. William C. Sturgis.

FULIGO SEPTICA (L.) Gmel.

(Fuligo ovata [Schaeff.] Macbr.) (48).

On dead cane leaves, banana debris, rotten wood, Pueblo Viejo, Sabana Llana, Río Piedras, Juana Díaz (48).

CRATERIUM AUREUM (Schüm.) Rost.

On humus and cane trash, fruiting at times on living stalks and leaves, Ponce, Río Piedras (48).

CRATERIUM LEUCOCEPHALUM (Pers.) Ditm.

On dead leaves and debris, fruiting at times on living sugar-cane leaves, Pueblo Viejo, Río Piedras (48).

DIDERMA EFFUSUM (Schw.) Morg.

On dead leaves of Pandanus utilis, Río Piedras.

DIDERMA SPUMARIOIDES Fr.

On dead leaves and rotten wood, Martín Peña.

DIACHÆA LEUCOPODA (Bull.) Rost.

var. GLOBOSA List.

On dead grass and leaves, Río Piedras. Reported by Stevens on *Pitcairnia angustifolia*, Naguabo, Sta. Ana (82).

DIDYMIACEZE.

DIDYMIUM NIGRIPES (L.) Fr.

Fruiting on living leaves of Wedelia trilobata, and Commelina nudiflora, Pueblo Viejo, Río Piedras.

STEMONITACEÆ.

COMATRICHA LANGA Peck.

On dead wood, Porto Rico (Stevens) (82).

STEMONITIS FUSCA Roth.

On sugar-cane trash, Río Piedras (48).

STEMONITIS HERBATICA Pk.

On rotten wood, Pueblo Viejo.

STEMONITIS SPLENDENS Rost.

On rotten wood and cane trash, Río Piedras, Martín Peña, Vega. Baja (48).

CRIBRARIACEÆ.

DICTYDIUM CANCELLATUM (Batsch.) Macbr.
On dead sugar-cane leaves and stalks, Río Piedras (48).

TUBULINACEÆ.

Tubifera ferruginosa (Batsch.) Gmel. On rotten wood, Palo Seco.

LYCOGALACEÆ.

LYCOGALA EPIDENDRUM (L.) Fr.

On rotten wood and sugar-cane trash, Río Piedras, El Duque (48).

ARCYRIACEÆ.

ARCYRIA DENUDATA (L.) Sheld.

On rotten wood and sugar-cane trash, Río Piedras, Martín Peña, (48).

ARCYRIA CINEREA (Bull.) Pers.

On rotten wood and sugar-cane trash, Río Piedras, Pueblo Viejo (48).

ARCYRIA PUNICEA Pers.

Reported from Fajardo in the Schwanecke collection (50).

TRICHIACEÆ.

HEMITRICHIA VESPARIUM (Batsch.) Macbr.
On rotten wood. Río Piedras.

HEMITRICHIA CLAVATA (Pers.) Rost.
On rotten wood, Martin Peña.

SCHIZOMYCETES.

COCCACEÆ.

MICROCOCCUS NIGROFACIENS Northrup.

Causing a disease of various stages of *Phyllophaga* spp., Río Piedras, Guánica (69, 78).

BACTERIACEÆ.

BACILLUS CAROTOVORUS Jones.

Producing a soft rot of carrots, cabbages, celery, and other vegeables, Río Piedras.

BACILLUS MESENTERICUS (Flügge) L. & N.

Causing "ropy" bread, Río Piedras, San Juan.

BACILLUS PRODIGIOSUS (Ehr.) L. & N.

Occasional as a contamination of cultures, Río Piedras.

BACILLUS RADICICOLA Bey.

Common on a wide range of leguminous hosts.

BACILLUS SUBTILIS (Ehr.) Cohn.

Common as a contamination in poured plates, Río Piedras.

BACTERIUM CAMPESTRIS Pamm.

On Brassica oleracea, Mayagüez (Thomas) (36, 90).

BACTERIUM PHASEOLI Er. Sm.

On *Phaseolus vulgaris*. Causes a serious leaf and pod disease, Río Piedras (90, 94).

BACTERIUM SOLANACEARUM Er. Sm.

Causing a serious wilt disease of Lycopersicum esculentum, Solanum melongena, Nicotiana tabacum, Solanum tuberosum, Río Piedras. A wilt disease of Helianthus annuus, probably attributable to this species reported by Thomas (15, 36, 56, 77, 90, 94).

PHYCOMYCETES.

CHYTRIDIACEÆ.

OEPIDIELLA UREDINIS Lagerh.

On Puccinia levis on Rytilix granularis (Manisuris granularis), Maricao (Sintenis) (76).

SYNCHYTRIUM DECIPIENS Farl.

On Rhynchosia reticulata, Palo Seco; Quebradillas, Cabo Rojo (Stevens) (82).

PERONOSPORACEÆ.

ALBUGO BLITI (Biv.) Kuntze.

On Amaranthus viridis, Río Piedras, Barceloneta. Amaranthus spinosus, Barceloneta (82, 101).

Albugo candida (Pers.) Kuntze.

On Brassica integrifolia, Río Piedras.

Brassica japonica, Barranquitas.

Lepidium virginicum, Comerío, Bayamón; Río Tanamá (Stevens) (82).

ALBUGO IPOMή-PANDURANÆ (Schwein.) Swingle.

On *Ipomæa* sp., Espinosa; Río Piedras, Peñuelas, Mona (Stevens).

Ipomœa batatas, Río Piedras, Vega Baja, Pueblo Viejo; Monte de Oro, Río Tanamá, Consumo, Arecibo, Manatí, Corozal, Luquillo, Boquerón, Guánica, Guayanilla (Stevens) (82, 90, 94).

Ipomæa pes-capræ, Cataño, Punta Cangrejos; Dos Bocas, Guánica, Boquerón, Mayagüez (Stevens) (82).

Ipomæa pes-tigridis, Guayama.

Ipomæa rubra, Río Piedras.

ALBUGO IPOMή-PANDURANÆ (Schwein.) Swingle—Continued.

On *Ipomæa tilyacea*, Garrochales, Río Piedras; San Germán (Stevens).

Jacquemontia nodiflora, Guayanilla, Mona Island (Stevens) (82).

Jacquemontia pentantha, Vega Baja. Thyella tamnifolia, Río Piedras (101).

ALBUGO PLATENSIS (Speg.) Swing.

On Bærhaavea erecta, Guánica (Stevens) (82). Bærhaavea hirsuta (Goll.) (101). Bærhaavea panniculata, Culebra (Britton).

ALBUGO PORTULACÆ (D. C.) Kuntze.

On Portulaca oleracea, Mayagüez (Stevens) (82).

PERONOPLASMOPORA CUBENSIS (B. & C). Clint.

On Cucumis melo, Río Piedras, Mayagüez (36, 90, 94).

Cucumis sativus, Río Piedras, Mayagüez.

Cucurbita moschata, Río Piedras, Mayagüez.

Luffa cylindrica, Río Piedras (Stevens) (82).

PHYTOPHTHORA INFESTANS (Mont.) De Bary.

On Lycopersicum esculentum, Mayagüez; Maricao (W. & O.) (36, 90, 94).

Solanum tuberosum, Mayagüez (Thomas).

Рнуторитнова рнаѕеоы Тһах.

On Phaseolus lunatus. Reported by Henricksen (36).

PHYTOPHTHORA TERRESTRIA Sherb.

On Capsicum annuum, Río Piedras.

Lycopersicum esculentum, Río Piedras, San Juan.

Phaseolus vulgaris, Río Piedras (90, 94).

The cause of a serious disease of beans and tomatoes.

MUCORACEÆ.

CHOANEPORA CUCURBITARUM (Berk. & Rav.) Thax.

On Hibiscus esculentus, Río Piedras. Causing a disease of the flowers and young pods.

PILOBOLUS CRYSTALLINUS Tode.

On horse manure, Río Piedras.

RHIZOPUS NIGRICANS Ehr.

Producing a soft rot of sweet potatoes, also as a bread mold, and contamination in cultures, Río Piedras (89, 96).

ENTOMOPHTHORACEÆ.

EMPUSA FRESENII Now.

On Pseudococcus nipæ on Chrysophyllum argenteum, Río Piedras.

on Acalypha Wilkesiana, Río Piedras.

on Erythrina glauca, Río Piedras.

Phenococcus sp., on Psidium guayaba, Río Piedras (46).

EMPUSA SPHÆROSPERMA (Fres.) Thaxt.

On Laphygma frugiperda, Río Piedras (46).

ENTOMOPHTHORA AULICÆ Reich.

On Ecpantheria eridanus, Naguabo, Río Piedras (46).

ASCOMYCETES.

SACCHAROMYCETACEÆ.

SACCHAROMYCES APICULATUS Reess.

Isolated from fermenting cacao and coffee (Loew) (57).

SACCHAROMYCES CEREVISIÆ Hansen.

Bread and brewer's yeast.

SACCHAROMYCES ELLIPSOIDEUS Hansen.

Isolated from fermenting cacao and coffee (Loew.) (57), and fermented grapefruit juice, Río Piedras.

PHYMATOSPHÆRIACEÆ.

Myriangium duriæi Mont. & Berk.

On Aulacaspis pentagona on Solanum rugosum, Río Piedras, on Cajanus indicus, Sabana Llana.

Hemichionaspis minor on undet, vine, Palo Seco.

Howardia biclavis on Guettarda scabra, Río Piedras.

Lepidosaphes beckii, and Chionaspis citri on Citrus spp., Sabana Llana, Río Piedras, Pueblo Viejo, Bayamón, Santurce, Espinosa, Vega Baja, Garrochales.

Very common everywhere on scale insects, parasitic to some extent at least (20, 46, 96, 100).

ERYSIPHACEÆ.1

ERYSIPHE CICHORACEARUM D. C. (?).

On Cosmos caudatus, Sta. Ana, Río Tanamá (Stevens).

Eupatorium microstemum, Maricao (Stevens).

Solanum torvum, Rosario, Naguabo, Cabo Rojo, Maricao, Arecibo, Peñuelas, Mayagüez (Stevens) (82).

¹ All determinations in this faimly are provisional only, the conidial or *Odium* stage only having been found in all cases.

ERYSIPHE GALEOPSIDIS D. C. (?).

On Eupatorium sp., Ponce (Stevens) (82).

ERYSIPHE POLYGONI D. C. (?).

On Arracacia xanthorrhiza, Indiera Fría (Stevens).

Cassia occidentalis, Guayama, Río Piedras, Rosario, Peñuclas, Arecibo-Lares, Cabo Rojo, Manatí (Stevens).

Cassia tora, Palo Seco; Maricao, Quebradillas, Aguada, Peñuelas, Guayanilla, San Germán, Guayama, Adjuntas, Mayagüez (Stevens).

Chamæcrista æschynomene, Palo Seco.

Chamæcrista diphylla, Espinosa.

Chamæcrista sp., Peñuelas (Stevens).

Dolicholus minima, Carolina.

Dolichos biflorus, Río Piedras.

Phaseolus adenanthus, Aguada (Stevens).

Phaseolus max, Río Piedras.

Phaseolus vulgaris, Río Piedras.

Pisum sativum, Río Piedras.

Vigna repens, Mayagüez (Stevens) (82).

Vigna unguiculata, Río Piedras (90, 94).

MICROSPHÆRA DIFFUSA D. C. (?).

On Crotalaria retusa, Sta. Ana, Coamo (Stevens).

Meibomia sp., Rosario, Mona Island (Stevens).

Meibomia adscendens, Utuado (Stevens).

Meibomia scorpiurus, Manatí, Guayama (Stevens).

Meibomia supina, Utuado, Jayuya (Stevens).

Meibomia tortuosa, Sabana Llana, Río Piedras; Peñuelas, (Stevens) (82).

MICROSPHÆRA EUPHORBIÆ (Pk.) B. & I. (?).

On Chamæsyce braziliensis, Mona Island (Stevens).

Chamæsyce hypericifolia, Mona Island, Jájome Alto (Stevens).

Hibiscus sabdariffa, Mayagüez (Stevens).

Manihot manihot, Río Piedras (Stevens) (82).

SPHÆROTHECA HUMULI (D. C.) Burr. (?).

On Bidens leucantha, Palo Seco.

Bidens reptans, Vega Baja, Maricao (Stevens) (82).

Cosmos sp., Jayuya (Stevens).

Melanthera canescens, Utuado (Stevens).

Ocimum micranthum, Utuado (Stevens).

Rosa sp., Maricao (Stevens).

Verbena sp., Maricao (Stevens).

PERISPORIACEÆ.

ANTENNULARIA (?) TENUIS Earle.

On Musa sp., and Inga vera (Heller) (21).

CAPNODIUM CITRI Berk. & Desm.

On Citrus decumana, Sabana Llana, Espinosa, Campo Alegre, Pueblo Viejo, Vega Baja (96).

DIMERIELLA CORDLE (P. Henn.) Th.

On Cordia sulcata, Mayagüez (Stevens) (82).

DIMERIELLA ERIGERONICOLA Stevens.

On Erigeron pusillum, Maricao (Stevens).

Erigeron spathulatus, Quebradillas, Maunabo, Yauco, El Gigante, Maricao (Stevens) (82).

Leptilon canadense, Río Piedras, Trujillo Alto, Vega Baja, Camuy, Arecibo.¹

DIMERIELLA OLYRE Stevens.1

On Olyra latifolia, Río Piedras, Preston's Ranch, Maricao, Mayagüez (Stevens) (82).

DIMERINA JACQUINIÆ Garman.

On Jacquinia barbasco, Mona Island (Stevens) (34).

DIMERIOPSIS ARTHROSTYLIDICOLA Stevens.

On Arthrostylidium sarmentosum, Monte Alegrillo (Stevens) (82).

DIMERIUM CAYAPONIÆ Garman.

On Cayaponia americana, Utuado (Stevens) (34).

DIMERIUM GRAMMODES (Kuntze) Gar.

On Crotalaria retusa, Trujillo Alto, Pueblo Viejo; Guayama, Cabo Rojo (Stevens). From Mayagüez as Parodiella perisporioides (Heller collection) (19).

Meibomia adscendens, Río Piedras.

Meibomia barbata, Río Piedras (Stevens); Añasco (W. & O.) (82).

Meibomia sp., Espinosa, Río Piedras.

Phaseolus lunatus, Aguadilla (Stevens).

Phaseolus vulgaris, Río Piedras (81).

Vigna repens, Río Piedras (34).

¹In comparing the descriptions, the great similarity between those of *Dimeriella Olyrae* and *Asterina fumagina* was noted. In response to a request for an opinion in the matter, **Dr.** Stevens replied as follows:

[&]quot;The species as published by Dearness and Barth, is based upon specimen No. 190 of my collection. My species, Dimeriella olyrae, is based upon my specimen No. 6770, but the two are co-specific and the publication of Dearness & Barth, clearly has the priority.

[&]quot;In the light of modern publications on this group, I believe that this fungus should be placed in the genus Dimericala of Spegazzini, and therefore suggest the following:

[&]quot;Dimeriella fumagina (Dearn. a Barth.) Stevens, comb. nov. "(Asterina fumagina Dearn & Barth.)

[&]quot;(Dimeriella olyrae Stevens.)"

DIMERIUM MELIOLOIDES (Berk. & Curt.) Gar.

On Clusia rosea, Maricao (Stevens) (34).

DIMERIUM STEVENSII Garman.

On Cordia corymbosa, Río Piedras; Quebradillas, Mayagüez, Maricao (Stevens) (34).

DIMEROSPORIUM APPENDICULATUM Earle.

On Asterina sidæ on Sida carpinifolia (21).

DIMEROSPORIUM TROPICALE Speg.

On Meliola sp., on melastomaceous plant. Col. N. Y. Bot. Garden.

EUROTIUM ARGENTINUM Speg.

On dead sugar-cane stalks, Río Piedras (48).

EUROTIUM HERBARIUM Lk.

On dried herbarium specimens, Río Piedras.

HYALODERMA PILIFERUM Pat.

On Meliola on a grass, Santurce. (foll. N. Y. Bot. Garden (82).

MELIOLA AIBONITENSIS Stevens.

On dicotyledonous plant, Aibonito (Stevens) (80).1

MELJOLA AMBIGUA Pat. & Gaill.

On Lantana camara, Dos Bocas, below Utuado, Río Arecibo (Stevens).

Lantana odorata, Quebradillas (Stevens).

Lantana sp., Quebradillas, Dos Bocas (Stevens).

MELIOLA AMOMICOLA Stevens.

On Amomis caryophyllata, Mayagüez (Stevens).

MELIOLA AMPHITRICA Fr.

On Randia aculeata (?), Caguas (Heller collection).

Tetragastris balsamifera (Hedwigia balsamifera). Sintenis
collection (76).

MELIOLA ANDIRÆ Earle.

On Andira jamaicensis, Camuy, Mayagüez; Arecibo, Martín Peña, Yauco, Santana, Maricao, Dos Bocas, Vega Alta, Lares, Manatí (Stevens) (21).

MELIOLA ARECIBENSIS Stevens.

On Acalypha bisetosa, Vega Baja, Dos Bocas (Stevens).

MELIOLA BICORNIS Wint.

On Bradburya pubescens, Espinosa.

Bradburya virginiana, Areeibo-Lares Road, Manatí, Dos Bocas, Vega Baja, Quebradillas (Stevens).

² Since all species of Meliola known to the Island are treated in Dr. Steven's paper, "The Genus Meliola in Porto Rico," further citations to it are omitted.

MELIOLA BICORNIS Wint.—Continued.

On Dalbergia monetaria, Mayagüez, Arecibo-Lares, Maricao (Stevens).

Dalbergia sp., Mayagüez, Rosario (Stevens).

Dolicholos reticulatus, Río Piedras; Florida Adentro, Vega Baja, Lares, Quebradillas, Barceloneta, Río Tanamá (Stevens).

Erythrina mycropteryx, El Miradero (Stevens).

Lonchocarpus glaucifolius, Quebradillas (Stevens).

Meibomia adscendens, Río Piedras; El Alto de la Bandera (Stevens).

Meibomia axillaris, Río Piedras: Florida Adentro, Las Marías, Mayagüez, Río Arecibo, Río Tanamá (Stevens).

Meibomia supina, Cataño, Martín Peña, Maricao, Vega Baja, Mayagüez, Florida Adentro, Río Tanamá, Dos Bocas, El Gigante, Indiera Fría (Stevens).

Mimosa ceratonia, Maricao, Río Arecibo, Vega Baja, Aibonito (Stevens).

Teramnus uncinatus, Maricao, Añasco (Stevens) (21).

Meliola bicornis var. calopogonii Stevens.

On Calopogonium orthocarpum, Río Piedras; Dos Bocas, Mayagüez, Aguada (Stevens).

MELIOLA BICORNIS Var. GALACTIÆ Stevens.

On Galactia dubia, Río Tanamá (Stevens).

MELIOLA BIDENTATA Cke.

On Tabebuia hamantha, Monte Alegrillo (Stevens).

Tecoma pentaphylla, Guanajibo (Stevens).

MELIOLA BYRSONIMÆ Stevens.

On Brysonima lucida, Guayanilla (Stevens).

MELIOLA CALOPHYLLI Stevens.

On Calophyllum calaba, Mayagüez, Vega Baja (Stevens).

MELIOLA CAPSICOLA Stevens.

On Capsieum baccatum, Manatí, Dos Bocas (Stevens).

MELIOLA CHAMÆCRISTÆ Earle.

On Chamacrista glandulosa (Heller). Coll. N. Y. Bot. Garden (21).

MELIOLA CHAMÆCRISTICOLA Stevens.

On Chamæcrista granulata, Mona Island (Stevens).

MELIOLA CHIOCOCCÆ Stevens.

On Chiococca alba, Vega Baja, Hormigueros (Stevens).

MELIOLA CIRCINANS Earle.

On Mariscus jamaicensis, Martín Peña; San Juan, Manatí (Stevens) (21).

Rynchospora aurea, Martín Peña (Heller).

Rynchospora gigantea, Martín Peña.

MELIOLA CLAVULATA Wint.

On *Ipomaa batatas*, Río Piedras: Vega Baja, Río Tanamá, Maricao (Stevens) (90).

Ipomαa cathartica, Río Arecibo, Vega Baja, El Alto de la Bandera (Stevens).

Ipomæa rubra, Río Piedras, Guaynabo.

Ipomæa tiliacea, Mayagüez (Stevens).

Ipomwa sp., Río Piedras, Espinosa; Sabana Llana, San Germán, Monacillo, Trujillo Alto, El Miradero, Mayagüez, Vega Alta (Stevens).

MELIOLA CLUSIÆ Stevens.

On Clusia minor, El Alto de la Bandera (Stevens).

MELIOLA COMOCLADIÆ Stevens.

On Comoctadia glabra, Rosario, Mayagüez, Maricao (Stevens). Spondias mombin, Maricao (Stevens).

MELIOLA COMPACTA Earle.

On Crossopetalum pallens. Coll. N. Y. Bot. Garden (21).

MELIOLA COMPOSITARUM Earle.

On Eupatorium odoratum, Trujillo Alto, Río Piedras; Dos Bocas, Rosario, Maricao, Aibonito, Utuado, El Gigante, El Miradero, Las Marías, Río Tanamá, Mayagüez, Yauco, Cataño, Jájome Alto (Stevens).

Eupatorium sp., Río Piedras, (Heller).

Willoughbæa sp., Adjuntas (Heller).

Meliola compositarum var. portoricensis Stevens.

On Eupatorium dolicholepis, Río Tanamá (Stevens).

Eupatorium portoricensis, Camuy; Vega Baja, Dos Bocas, San Sebastián, Arecibo-Lares (Stevens).

MELIOLA CONTORTA Stevens.

On Piper hispidum, Las Marías (Stevens).

MELIOLA CUCURBITACEARUM Stevens.

On Cucurbit. undet., El Alto de la Bandera (Stevens).

MELIOLA CUPANIÆ Stevens.

On Cupania americana, El Miradero (Mayagüez), Maricao, Dos Bocas, Quebradillas (Stevens).

Cupania sp., Quebradillas (Stevens).

MELIOLA CYCLOPODA Stevens.

On Pseudelephantopus spicatus, Vega Baja (Stevens).

MELIOLA CYPERI Pat.

On Cyperus sp., Mayagüez (Stevens).

Mariscus jamaicensis, San Juan (Stevens); Martín Peña (W. & O.).

Scleria sp., Manatí (Stevens).

MELIOLA DENTICULATA Wint.

On Roystonea borinquena, Arecibo-Lares (Stevens).

MELIOLA DIDYMOPANICIS P. Henn.

On Dendropanax arboreum, Manatí; Río Arecibo, Mayagüez (Stevens).

Dendropanax laurifolium, El Alto de la Bandera (Stevens).

Meliola dieffenbachiæ Stevens.

On Dieffenbachia seguine, Río Piedras, Espinosa; Las Marías, Maricao, Cataño, Lajas, Monte de Oro, Dos Bocas, Mayagüez (Stevens).

MELIOLA DIPHOLIDIS Stevens.

On Dipholis salicifolia, Guayanilla, Quebradillas (Stevens).

MELIOLA EARLII Stevens.

On Pilea numnularifolia, Espinosa; Jájome Alto (Stevens).

Pilea parietaria, Río Arecibo (Stevens).

Pilea sp., Florida Adentro (Stevens).

MELIOLA FURCATA Lev.

On Acrista monticola, El Alto de la Bandera, Luquillo Forest (Stevens).

Coccothrinax alta, Dos Bocas (Stevens).

Macrodiscus lactiflorus, Coamo (Stevens).

Thrinax ponceana, Guayanilla (Stevens) (81).

Thrinax praceps, Dos Bocas (Stevens).

Meliola Gaillardiana Stevens.

On Piper aduncum, Río Arecibo, Dos Bocas, Las Marías (Stevens).

MELIOLA GESNERIÆ Stevens.

On Cestrum laurifolium, Maricao (Stevens).

Cestrum macrophyllum, El Alto de la Bandera, El Gigante (Stevens).

Gesneria albiflora, Mayagüez, Dos Bocas (Stevens).

Meliola Glabra Berk. & Curt.

On Drypetes spp., Río Tanamá (Stevens).

Hypelate trifoliata, Mona (Britton).

MELIOLA GLABRA var. psychotriæ Stevens.

On Coccocypselum repens, Maricao (Stevens).

Palicourea domingensis, Florida Adentro (Stevens).

Palicourea sp., Mayagiiez, Vega Baja, Utuado, Ponce, Maricao, El Gigante (Stevens).

Psychotria bertiana, El Alto de la Bandera (Stevens).

Psychotria grandis, Mayagüez (Stevens).

Psychotria pubescens, Arecibo-Lares Road, Vega Baja (Stevens).

Psychotria sp., Quebradillas (Stevens).

MELIOLA GLABROIDES Stevens.

On Nectandra patens, Mayagüez, Maricao (Stevens).

Piper aduncum, Indiera Fría, El Alto de la Bandera, Las Marías, Dos Bocas, Vega Baja, Mayagüez, Añasco, Maricao, Arecibo-Lares Road, Aibonito, Lares, Martín Peña, Trujillo Alto, Utuado (Stevens) (19).

Piper marginatum, Espinosa.

Sauvagesia crecta, El Alto de la Bandera, Las Marías, Maricao (Stevens).

Simaruba tula, Mayagüez, El Gigante (Stevens).

Solanum persicifolium, Quebradillas, (Stevens).

Solanum rugosum, Las Marías (Stevens).

Valerianodes cayennensis, Río Piedras; Sabana Llana, Trujillo Alto (Stevens).

MELIOLA GLABROIDES VAR. SCHLEGELLÆ Stevens.

On Schlegelia sp., El Alto de la Bandera (Stevens).

MELIOLA GUAREÆ Speg.

On Guarea trichilioides, Las Marías, Dos Bocas, Monte de Oro, Adjuntas, Jájome Alto, Mayagüez (Stevens).

MELIOLA GUAREICOLA Stevens.

On Guarea trichilioides, Las Marías, Mayagüez, Adjuntas, Monte de Oro, Dos Bocas (Stevens).

MELIOLA GUIGNARDI Gaill.

On Turpinia panniculata, Maricao (Stevens).

MELIOLA GYMNANTHICOLA Stevens.

On Gymnanthes lucida, Guayanilla (Stevens).

MELIOLA HELLERI Earle.

On Eugenia monticola, Manatí (Stevens).

Eugenia Stahlii, Luquillo, El Alto de la Bandera (Stevens).

Myrcia deflexa, El Alto de la Bandera (Stevens).

Myrcia splendens, Jájome Alto (Stevens).

Unknown woody plant (Heller) (21).

MELIOLA HESSII Stevens.

On Paullinia pinnata, Sabana Llana, Mayagüez (Stevens).

MELIOLA HYPTIDICOLA Stevens.

On Hyptis atrorubens, Río Piedras.

Hyptis capitata, El Gigante (Stevens).

Hyptis lantanifolia, Las Marías (Stevens).

Hyptis pectinata, Dos Bocas, Maricao (Stevens).

Hyptis sp., Monte de Oro (Stevens).

MELIOLA IPOMή Earle.

On Ipomæa batatas, Río Piedras, Garrochales.

Ipomæa cathartica, Las Marías, Vega Baja (Stevens).

Ipomæa tiliacea, Aŭasco, Mayagüez (Stevens).

Ipomαa spp., El Miradero, Dos Bocas, Rosario, Maricao (Stevens); Mayagüez (Heller) (19, 90).

Meliola irregularis Stevens.

On Hygrophila brasiliensis, Río Piedras (Stevens).

MELIOLA JATROPHÆ Stevens.

On Jalropha hernandifolia, Río Tanama, Dos Bocas (Stevens).
MELIOLA LAGUNCULARIÆ Earle.

On Conocarpus erecta, Mayagüez (Stevens) (82).

Laguncularia racemosa, Martín Peña, Mayagüez, Joyuda (Stevens); Cataño (Heller) (19).

MELIOLA LONGIPODA Gaill.

On Anona montana, Mayagüez (Stevens).

Cordia corymbosa, Río Piedras.

Cordia nitida, Martín Peña (Stevens).

Cordia sp., Mayagüez (Stevens).

Tournefortia hirsulissima, Martín Peña, Sabana Llana; Arecibo, Dos Bocas, Quebradillas (Stevens).

MELIOLA LUCUMÆ Stevens.

On Lucuma multiflora, Las Marías, Guayanilla (Stevens).

MELJOLA MAGNOLLÆ Stevens.

On Magnolia portoricensis, Monte Alegrillo (Stevens).

MELIOLA MANCA Ell. & Mart.

On Myrica cerifera, Río Piedras; Manatí (Stevens); Cataño (Heller).

Melicola mangiferæ Earle.

On Mangifera indica, Bayamón, Camuy; Mayagüez, Vega Baja, Manatí, Luquillo Forest, El Gigante (Stevens); Río Piedras (Heller) (21, 82).

MELIOLA MARICÆNSIS Stevens.

On Ilex nitida, Maricao (Stevens).

MELIOLA MAYAGUESIANA Stevens.

On *Palicourea crocea*, Río Piedras; Las Marías, Lajas (Stevens).

Palicourea domingensis, Las Piedras (Stevens).

Palicourea riparia, Mayagüez (Stevens).

Palicourea sp., Mayagüez (Stevens).

MELIOLA MAYEPEÆ Stevens.

On Mayepea domingensis, Mayagüez. El Alto de la Bandera (Stevens).

MELIOLA MAYEPEICOLA Stevens.

On Mayepea domingensis, Mayagüez, Maricao (Stevens).

MELIOLA MELASTOMACEARUM Speg.

On Clidemia hirta, Maricao, Mayagüez, Las Marías, Dos Bocas (Stevens).

Clidemia strigillosa, Trujillo Alto, Lajas (Stevens).

Heterotrichum cymosum, Utuado (Stevens) (82).

Miconia impetiolaris, Mayagüez (W. & O.).

Miconia lavigata, Río Piedras, Camuy; Dos Bocas, Arecibo (Stevens).

Miconia racemosa, Río Piedras: Mayagüez, Lajas (Stevens).
Meliola Merrillii Syd.

On Cissus sicyoides, Mayagüez, Camuy, Río Piedras: Lares, San Germán, Utuado, Villa Alba, El Gigante, Dos Bocas, Añasco, Aguada, Yauco, Manatí, Río Tanamá (Stevens).

MELIOLA MICONIÆ Stevens.

On Miconia prasina, Las Piedras, Las Marías (Stevens).

MELIOLA MICONIEICOLA Stevens.

On Miconia Sintenisii, El Alto de la Bandera (Stevens).

MELIOLA MOLLERIANA Wint.

On Sida urens, Río Piedras. Quebradillas: Aguada. Mayagüez, San Germán, Añasco, Yauco, Cataño, Santana. Dos Bocas, Arecibo-Lares, Las Marías, Rosario, El Miradero (Stevens).

Varronia sp., Las Marías, El Miradero, Mayagüez, El Alto de la Bandera (Stevens).

MELIOLA MONENSIS Stevens.

On Amyris elemifera, Mona Island, Guayanilla (Stevens).

MELIOLA MYRSINACEARUM Stevens.

On Ardisia guadulupensis, Mayagüez (Stevens).

Myrsinaceæ undet., Maricao (Stevens).

MELIOLA NIGRA Stevens.

On Laguncularia racemosa, Guanajibo, Joyuda (Stevens).

MELIOLA OCOTEÆ Stevens.

On Ocotea leucoxylon, Jájome Alto (Stevens); Maricao (W. & O.).

Meliola ocoteicola Stevens.

On Chrysophyllum, Monte Allegrillo (Stevens).

Ocotca leucoxylon, Mayagüez, Monte Allegrillo (Stevens).

MELIOLA PANICI Earle.

On Andropogon bicornis, Las Marías, Vega Baja (Stevens).

Andropogon leucostachyus, El Alto de la Bandera (Stevens).

Chloris petræa, Mayagüez (Stevens).

Ichnanthus pallens, Maricao, Monte de Oro, Mayagüez (Stevens); El Yunque (W. & O.).

Lasiacis divaricata, Río Piedras; Arecibo, Manatí, Vega Baja, Vega Alta (Stevens).

Lasiacis Sloanei (Panicum latifolium), Río Piedras; Santurce (Heller) (19),

Lasiacis ruscifolia (L. compacta), Utuado (Stevens).

Lasiacis sorghoidea (L. swartziana), Añasco, Las Marías (Stevens).

Olyra latifolia, El Miradero, Mayagüez, Marieao, San Germán, Arecibo (Stevens).

Oplismenus setarius, Maricao (Stevens).

Panicum glutinosum, Maricao, Monte de Oro, Utuado, El Alto de la Bandera, Ponce, El Gigante, Las Marías (Stevens).

Paspalum secans, Maricao (Stevens).

Meliola parathesicola Stevens.

On Parathesis serrulata, Las Marías, Maricao, Arecibo-Lares (Stevens).

MELIOLA PAUCIPES Stevens.

On Piper blattarum, Mayagüez (Stevens).

MELIOLA PAULIANIÆ Stevens.

On Casearia aculeata, Lajas (Stevens).

Casearia arborea, Monte de Oro (Stevens).

Casearia guianensis, Río Piedras.

Cascaria ramiflora, Martín Peña, Barceloneta, Manatí, Vega Baja, Santana, San Germán (Stevens).

Casearia sylvestris, Río Piedras; Mayagüez, Miradero, Arecibo-Lares, San Germán (Stevens).

Casearia sp., Martín Peña, Espinosa; Dos Bocas, Mayagüez (Stevens).

MELIOLA PAULLINIÆ Stevens-Continued.

On Mammea americana, Maricao, Las Marías (Stevens).

Mammea americana, Maricao, Las Marías (Stevens)

Paullinia pinnata, Río Piedras; Mayagüez, Río Arecibo, Vega Baja, El Alto de la Bandera, Barros (Stevens).

MELIOLA PERSEÆ Stevens.

On Persea gratissima, Las Marías (Stevens).

MELIOLA PHILODENDRI Stevens.

On Philodendron krebsii, Arecibo-Lares, Jayuya, Ponce, Jájome Alto, Maricao, El Alto de la Bandera (Stevens).

MELIOLA PILOCARPI Stevens.

On Pilocarpus racemosus, Mayagüez (Stevens).

MELIOLA PIPERIS Earle.

On Piper aduneum, Río Piedras; Dos Bocas, Las Marías, Maricao, Monte de Oro (Stevens): Mayagüez (Heller) (19).

MELIOLA PRÆTERVISA Gaill.

On Coccoloba pyrifolia, Mayagüez, Jájome Alto (Stevens).

Coccoloba sintenisii, Mayagüez (Stevens).

Coccoloba sp., Martín Peña; Jájome Alto (Stevens).

Cupania americana, Manatí; Mayagüez (Stevens).

MELIOLA PSIDII Fr.

On *Psidium guayaba*, Bayamón, Río Piedras; Yauco, San Germán, Mayagüez, San Sebastián, Vega Alta, Jájome Alto, Arecibo-Lares, Dos Bocas, Vega Baja, Sabana Llana, Maricao, Utuado, Jayuya (Stevens) (19).

MELJOLA PSYCHOTRIÆ Earle.

On Borreria lævis, El Alto de la Bandera, Dos Bocas (Stevens).

Borreria ocimoides (Stevens).

Chiococcoa alba, Río Piedras; Mayagüez, Río Tanamá (Stevens).

Erithalis fruticosa, Quebradillas, Mona Island, Guayanilla (Stevens) (21).

Gonzalagunia spicata, Sabana Llana, El Miradero, Mayagüez, Vega Baja, Río Arecibo (Stevens).

Guettarda ovalifolia, Maricao (Stevens).

Guettarda scabra, Martín Peña.

Mitracarpus portoricensis, Río Piedras.

Psychotria sp., Martín Peña.

Randia aculeata, Martín Peña, Río Piedras; Quebradillas, Florida Adentro, Hormigueros, Monacillo (Stevens).

Meliola Pteridicola Stevens.

On Adiantum latifolium, Las Marías, Mayagüez (Stevens).

Adiantum sp., Mayagüez (Stevens).

Aneimia adiantifolia, Río Tanamá, Quebradillas, Dos Bocas (Stevens).

Aneimia spp., Dos Bocas (Stevens).

MELIOLA PUIGGARII Speg.

On Rubus sp., El Alto de la Bandera, Maricao (Stevens).

MELIOLA QUADRISPINA Rac.

On Ipomæa cathartica, Las Marías (Stevens).

MELIOLA RECTANGULARIS Stevens.

On Banisteria laurifolia, Jayuya, Maricao, Utuado, Hormigueros, Mayagüez, Martín Peña (Stevens).

Coccoloba laurifolia, Arecibo-Lares (Stevens).

MELIOLA RUDOLPHIÆ Stevens.

On Rudolphia volubilis, Monte Alegrillo, Maricao, Luquillo Forest, El Alto de la Bandera, Aibonito (Stevens).

MELIOLA SEPULTA Pat.

On Avicennia nitida, Martín Peña.

MELIOLA SERJANIÆ Stevens.

On Scrjania polyphylla, Vega Baja, Florida Adentro, Arceibo-Lares, Cataño (Stevens).

MELIOLA SMILACIS Stevens.

On Smilax coriacea, Manați (Stevens).
Smilax sp., Algarrobo; Jájome Alto (Stevens).

MELOLA SOLANI Stevens.

On Solanum jamaicensis, Monte de Oro (Stevens).

MELIOLA STENOTAPHRI Stevens

On Paspalum plicatulum, Río Piedras.

Stenotaphrum secundatum, Río Piedras; Manatí, Río Tanamá, Dos Bocas, Arecibo (Stevens).

MELIOLA TABERNÆMONTANÆ Speg.

On Plumiera Krugii, Maricao (Stevens).

Rauwolfia nitida, Martín Peña (Stevens).

Rauwolfia tetraphylla, Martín Peña.

Tabernamontana oppositifolia, Mayagüez, Hormigueros (Stevens).

MELIOLA TABERNÆMONTANÆ VAR. FORSTERONIÆ Stevens.

On Forsteronia corymbosa, Utuado (Stevens).

MELIOLA TECOMÆ Stevens.

On Tecoma pentaphylla, Río Piedras; Martín Peña, Mayagüez. Las Marías, Maricao (Stevens).

Tecoma sp., El Miradero, Las Marías, Mayagüez, Maricao. Quebradillas, Vega Baja, Arecibo-Lares (Stevens).

MELIOLA TENUISSIMA Stevens.

On Gouania lupuloides, Canny; Yauco, Villa Alba (Stevens).

MELIOLA THOUINIÆ Earle.

On Allophylus crassinervis, Quebradillas (Stevens).

Krugiodendron ferreum, Guayanilla, Río Tanamá. Quebradillas, Coamo (Stevens).

Thoninia striata, Vega Baja, Río Arecibo (Stevens) (21). Winterana canella, Guayanilla, Mona Island (Stevens).

MELIOLA TORTUOSA Wint.

On Piper medium, Vega Baja (Stevens).

Piper peltatum, Río Piedras: Ponce (Heller): Mayagüez (W. & O.).

Piper umbellatum, Espinosa; Utuado, Indiera Fría, Mayagüez, Lares, Añasco, Monte Alegrillo, El Gigante, Jájome Alto, Dos Bocas, Las Marías, Río Tanamá, Maricao, Río Arecibo (Stevens) (21).

MELIOLA TORULOIDEA Stevens.

On Cassia quinquadrangulata, Jájome Alto, Maricao, Aibonito (Stevens).

Inga laurina, Las Marías (Stevens); Maricao (W. & O.). Inga vera, Mayagüez (W. & O.).

MELIOLA TRILOBA Wint.

On Pilea parietaria, Arceibo-Lares, Dos Bocas, Río Arceibo (Stevens).

MELIOLA TRIUMFETTÆ Stevens.

On Hibiscus tiliaccus, Arecibo-Lares, Maricao, Dos Bocas (Stevens).

Triumfetta semitriloba, Utuado, Indiera Fría (Stevens).

Triumfetta sp., Espinosa.

MELIOLA TUBERCULATA Stevens.

On undet. host, Vega Baja (Stevens).

Myriosticta portoricensis Pat.

On Vigna repens. Coll. N. Y. Bot. Garden. Probably Dimerium grammodes.

PARODIELLA PERISPORIOIDES (B. & C.) Speg.

See Dimerium grammodes.

Perisporina lantanæ Stevens.

On Lantana camara, Lares (Stevens) (82).

Perisporiopsis Wrightii (B. & C.) Stevens.

On Opuntia sp., Mayagüez, Ponce (Stevens) (82).

Perisporium bromeliæ Stevens.

On Bromelia pinguin, Río Piedras, Naguabo, Camuy; Mayagüez, Manatí, Utuado, Santa Ana, Cataño, Vega Baja, Florida Adentro, Lajas, Hormigueros, Coamo, Maricao, Añasco (Stevens) (82).

Perisporium portoricensis Stevens.

On Calophyllum calaba, Mayagüez, Vega Baja (Stevens) (82).

Perisporium truncatum Stevens.

On Inga laurina, Maricao, Mayagiiez, El Alto de la Bandera, Coamo (Stevens).

Inga vera, Maricao (Stevens) (82).

PSEUDOMELIOLA (?) COLLAPSA Earle.

On Meliola torulosa on Piper peltatum. Meliola sp., on Hyptis capitatum (21).

MICROTHYRIACEÆ.

ASTERINA CORIACELLA Speg. (?).

On Cestrum laurifolium. Coll. N. Y. Bot. Garden.

ASTERINA (ASTERELLA) FUMAGINA Dear. & Barth.

On Lasiacis Stoanci (Panicum latifolium) (?), Maricao (Stevens) (18). This is apparently the same as Dimeriella olyræ Stevens.

ASTERINA SIDÆ Earle.

On Sida carpinifolia, Porto Rico (Heller) (21).

ASTERINA TRILOBA Earle.

On Croton discolor, Ponce (Heller) (21).

MICROPELTIS ÆRUGINESCENS Rehm.

On Rourea glabra, Río Piedras (W. & O.).

MICROPELTIS LAGUNCULARIZE Wint.

On Laguncularia racemosa, Mayagüez (Heller) (19).

MICROPELTIS LONGISPORA Earle.

On Coffee arabica, Porto Rico (Heller) (21).

MICROPELTIS MANTHLÆ (?).

On Adiantum latifolium, Mayagüez (W. & O.).

MICROTHYRIUM URBANI Bres.

On Shæfferia fructescens, Cabo Rojo (Sintenis) (76).

NECTRIACEÆ.

Borinquenia miconiæ Stevens.

On Miconia lavigata, Arecibo, Utuado (Stevens) (82).

CALONECTRIA ERUBESCENS (Roberge) Sacc.

On dead leaves, Naranjito, Vega Baja, Aibonito (Fink).

CREONECTRIA BAINII (Massee) Seaver.

On pods of Theobroma cacao, Mayagüez (Fawcett) (27).

CREONECTRIA BALANSÆ (Speg.) Seaver.

On dead wood, Río Piedras.

CREONECTRIA GRAMMICOSPORA (Ferd. & Winge) Seaver.

On dead bark of Cajanus indicus, Río Piedras.

CREONECTRIA OCHROLEUCA (Schw.) Seaver.

(Nectria ochroleuca Schw.)

On dead bark, Santana (Stevens) (82).

DEXTERIA PULCHELLA Stevens.

On Paullinia pinnata, Mayagüez (Stevens) (82).

GIBERELLA PULICARIS (Fries) Sacc.

On dead cane stalks, grass culms, Río Piedras, Carolina, Las Monjas, Guaynabo (48).

Hyalosphæra miconiæ Stevens.

On Miconia lævigata, Arecibo, Utuado, Maricao, Aguas Buenas, Ponce, Yabucoa (Stevens) (82).

Hyponectria phaseoli Stevens. In mss.

On Vigna vexillata, Porto Rico (Stevens).

MEGALONECTRIA PSEUDOTRICHIA (Schw.) Speg.

On dead wood and bark, particularly of Cajanus indicus, Río Piedras, Pueblo Viejo, Moca (72, 90).

NECTRIA EPISPHÆRIA (Tode) Fries.

On dead wood, citrus twigs, and branches, often following Corticium, and on fruiting bodies of Ustilina vulgaris, Martín Peña, Bayamón, Río Piedras (89, 96).

NECTRIA FLAVOCILIATA Seaver.

On dead wood and dead cane stalks, Río Piedras, Vega Baja (48).

NECTRIA LAURENTIANA Marschal.

On dead and dying cane stalks, at times a wound parasite, Río Piedras, Carolina, Loíza, Las Monjas (48, 105).

NECTRIA RHYTIDOSPORA Pat.

On dead bark, Coll. N. Y. Bot. Garden.

NECTRIA SUFFULTA Berk. & Curt.

On stump of Musa, Río Piedras.

PLEONECTRIA MEGALONECTRIA Speg.

On dead and dving bark of Cajanus indicus, Espinosa.

Scoleconectria coccicola (Ellis, & Ev.) Seaver.

(Ophionectria coccicola Ellis, & Ev.)

On various scale insects, on *Citrus* spp., particularly *Lepido-saphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Espinosa, Garrochales, Mayagüez (46, 96, 100).

SPHÆRODERMATELLA HELLERI (Earle) Seaver.

(Melanospora (?) Helleri Earle.)

On bark, Santurce (Heller) (19, 72, 73).

SPHÆROSTILBE COCCOPHILA (Desmaz.) Tul.

On various scale insects on Citrus spp., particularly Lepidosaphes beckii, Río Piedras, Pueblo Viejo, Bayamón, Vega Baja, Manatí, Espinosa, Garrochales, Mayagüez. Wide spread and always present in abundance (20, 46, 96, 100).

HYPOCREACE 4E.

Balansia hypoxylon (Peck) Atk.

(Ephelis mexicana Fries.)

(Hypocrella hypoxylon [Peck.] Sacc.)

On living stems of *Panicum tricanthum*, Río Piedras. Also reported from the Sintenis collection (76), on inflorescences of Gramines.

CHROMOCREA GELATINOSA (Tode) Seaver.

On dead cane stalks and debris, Río Piedras, Carolina (48).

CHROMOCREOPSIS STRIISPORA Stevenson.

On dead cane stalks, Gurabo (48).

CORDYCEPS BARBERI.

See Isaria Barberi.

CORDYCEPS DIPTERYGENA Berk. & Br.

On Drosophalid flies, particularly *Chrysomyia macellaria*, Río Piedras, Espinosa (94).

DOTHICHLŒ ARISTIDÆ Atkinson.

On Aristida portoricensis, Mayagüez (W. & O.). This fungus reported by Stevens (82) as Balansia discoidea.

DOTHICHLŒ ATRAMENTOSA (B. & C.) Atk.

On Andropogon leucostachyus, Las Marías (Stevens) (82). Chloris petræa, Boquerón (W. & O.).

Dothichlæ nigricans (Speg.) Seaver.

(Ephichlæ nigricans Speg.)

On Ichnanthus pallens, Mayagüez, El Yunque (W. & O.). The same fungus reported by Stevens (82) as Dothichlæ aristidæ.

GLAZIELLA AURANTIACA (Berk. & Curt.) Sacc.

On dead wood, Mameyes.

HYPOCREA RUFA (Pers.) Fries.

On dead cane trash and dead wood, Río Piedras, Naguabo (48).

HYPOCRELLA TAMONEÆ Earle.

On living leaves of *Tamonea* sp. Collections N. Y. Bot. Garden (73, 74).

PODOSTROMA BREVIPES (Mont.) Seaver.

On dead wood, El Yunque.

SPERMŒDIA STEVENSII Seaver.

· (Claviceps paspali S. & H.)

On Paspalum plicatulum, Rosario, Ponce, Añasco, Cataño, Coamo, Mayagüez (Stevens) (82).

STILBOCREA HYPOCREOIDES (Kalchbr. & Cooke) Seaver.

On dead wood, Río Piedras, Espinosa, Bayamón.

USTILAGINOIDEA USAMBARENSIS P. Henn.

On Panicum laxum, Monte de Oro, El Alto de la Bandera (Stevens) (82).

DOTHIDIACEÆ.

AUERSWALDIA PALMICOLA Speg.

On Acrista palmicola, Adjuntas, El Gigante (Stevens) (38, 81)

Myriogenospora Bresadoleana P. Henn.

On Andropogon bicornis, Río Piedras.

Axonopus compressus, Mayagüez (W. & O.).

Paspalum conjugatum, Sierra de Naguabo, Pueblo Viejo (81)

PHYLLACHORA ANDROPOGONIS (Schw.) Karst.1

On Paspalum millegrana, Naguabo (Stevens) (34).

² Dr. C. R. Orton in studying the Phyllachoras on grasses has indicated a number of new species from the Porto Rican collections, and in particular fluds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

PHYLLACHORA CASSIÆ P. Henn.

On Cassia fistula, Río Piedras, Quebradillas.

PHYLLACHORA CORNUOSPORA Atk.

On Paspalum virgatum, Río Piedras.

PHYLLACHORA CYPERI Rehm.

On Cyperus giganteus, Mayagüez (W. & O.)

PHYLLACHORA GALACTIÆ Earle.

On Galactia striata, Río Piedras, Espinosa, Camuy.
Galactia tenuiflora, Coamo Springs (Cooke & Collins).

PHYLLACHORA GRAMINIS (Pers.) Fuckel.1

On Andropogon brevifolius, Río Piedras.

Arthrostylidium sarmentosum, Utuado (Stevens) (82).

Lasiacis sorghoidea, Jájome Alto (Stevens).

Panicum sp., Maricao (Stevens).

Paspalum conjugatum, Vega Baja, El Alto de la Bandera (Stevens) (82).

Paspalum virgatum, Utuado (Stevens) (82).

Paspalum sp., Río Piedras; Sabana Grande (Stevens) (34).Valota insularis, Quebradillas, Vega Baja, Santa Ana, Coamo (Stevens) (82).

PHYLLACHORA GRATISSIMA Rehm.

On Persea americana, Jayuya (Stevens) (60).

PHYLLACHORA INCLUSA (B. & C.) Sacc.

On Jacquinia Berterii, Ponce (Heller).

PHYLLACHORA LUTEO-MACULATA (Schw.) Orton.

On Andropogon leucostachys, Río Piedras.

PHYLLACHORA MAYDIS Maubl.

On Zea mays, Arecibo, Vega Baja, Río Piedras (16, 17, 18, 90). Given by Stevens and Dalby as P. graminis.

PHYLLACHORA MINUTA P. Henn.

On Paritium tiliaceum, Pueblo Viejo; Cataño (W. & O.).

PHYLLACHORA NITENS Garman.

On Schlegelia brachyantha, Maricao, Ponce, Monte Allegrillo, Río Grande, Preston's Ranch (Stevens) (34).

PHYLLACHORA PERFORANS (Rehm.) Sacc.

On Securidaca virgata, Río Piedras; Maricao, Rosario, Mayagüez (Stevens) (34, 82). Host reported erroneously by Garman as Abrus precatorius.

¹ Dr. C. R. Orton in studying the Phyllachoras on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as P. andropogonis and P. graminis are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

PHYLLACHORA PERIBEBUYENSIS Speg.

On Heterotrichum cymosum, Jayuya (Stevens); El Yunque (W. & O.).

Miconia lavigata, Río Piedras, Maricao, Consumo, Las Marías (Stevens).

Miconia Sintensii, Monte Alegrillo (Stevens).

Miconia sp., Río Piedras, Espinosa; Villa Alba, Maricao, Rosario (Stevens).

Tetrazygia elæagnoides, Vega Baja, Espinosa; Barceloneta (W. & O.).

Tetrazygia sp., Santana (Stevens) (34).

PHYLLACHORA PUNCTA (Schw.) Orton.

On Opilesmenus hirtellus, Espinosa.

PHYLLACHORA RENEALMIÆ Rehm.

On Alpinia antillarum, Maricao, Monte Alegrillo, Utuado, Jájome Alto, El Yunque (Stevens) (34).

PHYLLACHORA SCLERIÆ Rehm.

On Scleria pterota, Sierra de Naguabo, Espinosa, Río Piedras; Sabana Llana (Stevens) (82).

PHYLLACHORA SPHÆROSPERMA Winter.

On Cenchrus echinatus, Loíza, Campo Alegre; Vega Baja (Stevens) (34).

Cenchrus myosurioides, Mona Island (Stevens) (34).

SCIRRHIA LOPHODERMIOIDES Ellis & Ev.

On Saccharum officinarum, Río Piedras.

FIMETARIACEÆ.

SPORORMIA MINIMA Auersw.

On cow manure, Río Piedras.

SPHÆRIACEÆ.

BERTIA MORIFORMIS (Tode) De Not.

On dead wood, El Yunque (Heller).

HERPOTRICHIA ALBIDOSTOMA (Peck.) Sacc.

On rotten wood, Río Piedras.

HERPOTRICHIA DIFFUSA (Schw.) E. & E.

On coconut husks, Espinosa.

LASIOSPHÆRIA PEZIZULA (B. & C). Sacc.

On dead bark, Dorado.

Lizonia jacquiniæ Bri. & Har.

On Jacquinia barbasco (J. armillaris) (Sintenis) (76).

MELANOMMA NITIDULUM Bres.

Reported from the Sintenis collection (76).

PHÆOSPORA CACTICOLA Stevens, .

On Rhipsalis cassytha, Cayey (Stevens) (82).

ROSELLINIA AQUILA (Fr.) d. Not.

On dead wood, Río Piedras, Bayamón, Martín Peña.

ROSELLINIA BUNODES B. & Br.

On Coffea arabica, Mayagüez (Brandes) (31). Also reported by Fawcett (31) as attacking Acalypha mosaica, Graptophyllum pictum, Jambosa jambos, Panax plumatum, Petiveria alliacea, Miconia sp., Piper sp., and Palicourea sp.

ROSELLINIA PARAGUAYENSIS Stark.

On dead sugar-stalk, Río Piedras (48).

ROSELLINIA PULVERACEA (Ehrh.) Fuckel.

On dead sugar-cane stalks, Río Piedras.

ROSELLINIA SUBICULATA (Schw.) Sacc.

On dead wood, El Duque, Río Piedras, Martín Peña, Fajardo Garrochales.

ZIGNŒLLA ALGAPHILA Stevens. In mss.

On Cephaleuros virescens on Artocarpus incisa, Porto Rico (Stevens).

CUCURBITARIACEÆ.

NITSCHKIA NERVINCOLA Rehm.

On Gesneria albiflora, Maricao (Brittin); Mayagüez (Stevens) (82).

OTTHIA PANICI. Stevens.

On Panicum maximum, Jayuya, Naguabo (Stevens) (82).

CORYNELIACEÆ.

CORYNELIA OREOPHILA (Speg.) Starb.

On Podocarpus coriaccus, Maricao (W. & O.). This species is reported by Dr. Stevens (82) as Corynclia clavata (S). Sacc. var. portoricensis Stevens.

CORYNELIA PTERIDICOLA Stevens.

On Campyloneurum sp., Añasco (Stevens) (82).

LOPHIOSTOMATACEÆ.

PLATYSOMIUM INDURATUM Earle.

Host not known. Coll. N. Y. Bot. Garden (Underwood and Griggs).

MYCOSPHÆRELLACEÆ.

GUIGNARDIA CEPHALARIÆ Aud. var. ALTERNANTHERÆ Sace.

On Alternanthera sessilis, Río Piedras, Pueblo Viejo; Mayagüez, Las Marías, Utuado, Guayanilla (Stevens) (82).

GUIGNARDIA CLUSIÆ Stevens.

On Clusia gundlachii, Maricao (Stevens) (82).

GUIGNARDIA HELICTERES Stevens.

On Helicteres jamaicensis, Barceloneta (Stevens) (82).

GUIGNARDIA HETEROTRICHI Stevens.

On Teterotrichum cymosum, Naguabo, Maricao, Villa Alba, Utuado (Stevens) (82).

GUIGNARDIA JUSTICIÆ Stevens. In mss.

On Justicia verticillaris, Porto Rico (Stevens).

GUIGNARDIA PIPERICOLA Stevens.

On Piper marginatum, Palo Seco; Lajas, Cabo Rojo (Stevens) (82).

Piper medium, Espinosa, Camuy; Vega Baja, Aguada, Trujillo Alto, St. Ana, Florida, Río Tanamá, Manatí, Peñuelas (Stevens) (82).

GUIGNARDIA PROMINENS Earle.

On Aegiphila martinicense, Santurce (Heller) (19).

Guignardia Rynchosporæ Stevens.

On Rynchospora cyperoides Martín Peña (Stevens) (82).

GUIGNARDIA TETRAZYGIA Stevens. In mss.

On Tetrazygia sp., Porto Rico (Stevens).

MYCOSPHÆRELLA AGGREGATA Schw.

On dead wood. Coll. N. Y. Bot. Garden.

MYCOSPHÆRELLA ANTHURII Miles.

On Anthurium acaule, Point Cangrejos; Aguas Buenas, Monte Alegrillo, Yabucoa, Trujillo Alto, Rosario, Cataño, Bayamón, Cabo Rojo, Las Bocas (Stevens) (61).

MYCOSPHÆRELLA CHRYSOBALANI Miles.

On Chrysobalanus icacao, Río Piedras (Stevens) (61).

MYCOSPHÆRELLA CITRULLINA (C. O. Sm.) Gres.

On Cucumis melo, Río Piedras (94).

MYCOSPHÆRELLA CLUSIÆ Stevens.

On Clusia rosca, Maricao, Lajas, Mayagüez, Utuado (Stevens) (82).

MYCOSPHÆRELIA DIDYMOPANACIS Miles.

On *Didymopanax morototoni*, Río Piedras, Bayamón; Añasco, Utuado (Stevens) (61).

MYCOSPHAERELLA DUBIA Miles.

On Solanum sp. (?), Maricao (Stevens) (61).

MYCOSPHÆRELLA FRAGARLÆ (Tul.) Lin.

On Fragaria sp., Río Piedras.

MYCOSPHÆRELLA GUTTIFERÆ Miles.

On Clusia gundlachii, Maricao (Stevens) (61).

MYCOSPHÆRELLA MACULIFORMIS (Pers.) Schw.

On Inga vera, Maricao (Stevens) (82).

MYCOSPHÆRELLA MAXIMA Miles.

On unknown host, Maricao (Stevens) (61).

Mycosphærella maydis (Pass.)

On Syntherisma sanguinale, El Alto de la Bandera (Stevens) (82).

MYCOSPHÆRELLA MUCUNÆ Stevens.

On Mucuna pruriens, Añasco (Stevens) (82).

MYCOSPHÆRELLA PALMÆ Miles.

On leaves of palms, Guánica (Stevens) (61).

MYCOSPHARELLA PERSEÆ Miles.

On *Persea americana*, Pueblo Viejo, Río Piedras, Bayamón; Maricao, San Germán, Dos Bocas (Stevens) (60, 61).

MYCOSPHÆRELLA TABEBUIÆ Miles.

On Tabebuia hamantha, Vega Baja, Mona Island (Stevens) (61).

MYCOSPHÆRELLA TYROLENSIS Stevens. In mss.

On Gymnogramma sulphurea, Porto Rico (Stevens).

SPHÆRELLA SACCHARI Speg.

On dead leaves of sugar-cane, Fajardo, Río Piedras (48, 105).

PLEOSPORACEÆ.

Leptosphæria sacchari van Breda de H.

On Saccharum officinarum, Juncos. Río Piedras, Areeibo, Gurabo, Quebradillas (48, 82, 94, 105).

METASPHÆRIA ABORTIVA Stevens.

On Varronia alba., Mayagüez, Maricao, Lares (Stevens) (82). Ophiobolus barbatus Pat. & Gaill.

On Vitex sp. (Stevens) (82).

PHYSALOSPORA ANDIRÆ Stevens.

On Andira jamaicensis, Sierra de Naguabo, Río Piedras; Camuy, Mayagüez, Vega Baja, San Sebastián. Maricao, Cabo Rojo. Coamo. Quebradillas, Hormigueros, San Germán. Lajas, Martín Peña, Peñuelas, Lares, El Yunque (Stevens) (82).

PHYSALOSPORA BAMBUSÆ (Rab.) Sacc.

On Lasiacis sorghoidea, El Yunque (Stevens) (82).

PHYSALOSPORA CAROPHYLLINICOLA Stevens.

On Drymaria cordata Jayuya (Stevens) (82).

PHYSALOSPORA LAGUNCULARIÆ Rehm.

On Laguncularia racemosa, Guánica, Boquerón (Stevens) (82).

PHYSALOSPORA TUCUMANENSIS Speg.

On dead sugar-cane stalks, Carolina (48).

GNOMONIACEÆ.

ANTHOSTOMELLA RHIZOMORPHÆ Stevens. In mss.

On Rhizophora mangle, Martín Peña.

GLOMERELLA CINGULATA (Stonem.) S. & V. S.

(Glomerella psidii Dela.).

(Glæosporium rufomaculans [Berk.] Thüm.)

(Glæosporium vanillæ [Berk.] Cke.)

On Citrus decumana, (dead twigs), Río Piedras.

Psidium guajava, Mayagüez (Sheldon). Reported in Bull.

104, West Va. Agri. Exp. Station.

Vanilla planifolia, Mayagüez (Thomas).

LINOSPORA TRICHOSTIGMÆ Stevens. In mss.

On Trichostigma octandra, Porto Rico (Stevens).

TRABUTIA PORTORICENSIS Stevens. In mss

On Coccolobis nivea, Porto Rico (Stevens).

TRABUTIELLA CORDIÆ Stevens. In mss.

On Cordia collococca, Porto Rico (Stevens).

· VALSACEÆ.

Valsa sacchari Stevenson. (In ed.)

On dead sugar-cane stalks, Barceloneta.

MELANCONIDACEÆ.

MELANCONIS SACCHARI Mass.

On Saccharum officinarum, Mayagüez (Stevens) (82). Undoubtedly a mistake for Melanconium sacchari Mass.

Valsaria subtropica Speg.

On dead cane-stalk, Río Piedras (82).

DIATRYPACEÆ.

DIATRYPE STIGMA (Hoffm.) Fr.

On dead wood, Martin Peña,

MELOGRAMMATACEÆ.

ENDOTHIA LONGIROSTRIS Earle.

On dead bark, Río Piedras, Sierra de Naguabo; Santurce (Heller) (82). Cultural and comparative studies reported by Shear et al., in Bul. 380, U. S. Dept. of Agri.

ENDOTHIA PARRYI (Farl.) Cooke.

On Agave rigida var. sissalana, Maricao (Stevens) (82).

Furcrea tuberosa (Fourcroya hexapetala), Maricao, Monte
Allegrillo, Trujillo Alto (Stevens) (82).

MYRMÆCIUM CANNÆ Dearn. & Barth.

On Canna indica, Cabo Rojo (Stevens) (18).

MYRMÆCIUM RUBICOSUM (Tul.) Nits.

On dead bark, Naguabo.

XYLARIACEÆ.

DALDINIA CONCENTRICA (Bolt.) E. & E.

On dead wood, Garrochales, Palo Seco, Pueblo Viejo, Martín Peña, Espinosa (96), Reported from Humacao (Schwanecke) (50) as Sphæria concentrica Bolt.

HYPOXYLON ANNULATUM Mont.

On dead wood, Palo Seco.

HYPOXYLÓN FUSCOPURPUREA Berk.

On dead citrus branches, Campo Alegre, Bayamón (96),

Hypoxylon perforatum (Sehw.) Fr.

On dead bamboo, Río Piedras.

Hypoxylon rubiginosum Fr. «

On dead wood, Río Piedras, Martín•Peña

KRETZSCHMARIA CŒNOPUS (Mont.) Karsten.

On dead wood, El Duque, Aibonito, Río Piedras.

KRETZSCHMARIA RUGOSA Earle.

On dead wood, Sierra de Naguabo, El Yunque.

NUMMULARIA BULLIARDII Tul.

On dead wood, or occasionally as a wound parasite of *Ficus* nitida and other trees, Río Piedras, Sierra de Naguabo, Martín Peña, El Yunque, Comerío (89).

NUMMULARIA GLYCYRRHIZA B. & C.

On dead wood. Reported from the Sintenis collection (76). Probably is N. Bulliardii.

NUMMULARIA REPANDA Nitsch.

On dead wood, El Yunque.

PORONIA ŒDIPUS Mont.

On manure, Río Piedras, Cortada.

USTILINA VULGARIS Tul.

On dead wood and on the larger roots and crowns of dying grapefruit trees (Citrus decumana), Río Piedras, Martín Peña, Palo Seco (89, 96). What is probably the same species is reported from the Schwanecke collection (50) as Hypoxylon vulgare Link.

XYLARIA APICULATA Cooke.

(Xylaria arbuscula Sace.)

On dead wood, Río Piedras, Martín Peña, Espinosa, Bayamón (48, 54).

XYLARIA ARISTATA Mont.

On dead wood, Río Piedras.

XYLARIA AXIFERA Mont.

On dead wood, Río Piedras, El Yunque.

XYLARIA BERKELEYI Mont.

On dead wood, Sierra de Naguabo, El Yunque.

XYLARIA CLAVICULARIS Klotzsch.

On rotten wood, Naguabo. Reported from the Schwanecke collection (50), but nothing more is known about it.

XYLARIA CUBENSIS Mont.

On dead wood, Mameyes, Sierra de Naguabo. Xylaria involuta of the Sintenis collection (76) is referred (Lloyd) to this species.

XYLARIA EUGLOSSA Fries.

On dead wood, Río Piedras.

XYLARIA FIMBRIATA Lloyd.

On dead wood and soil, Río Piedras, Bayamón (55).

XYLARIA MULTIPLEX Fr.

On old pods of Hymenaa courbaril, Río Piedras.

XYLARIA OBOVATA Berk.

On dead wood, El Yunque.

XYLARIA OBTUSSISSIMA Berk.

Reported from the Sintenis collection (76).

XYLARIA PARTITA Lloyd.

On dead wood, Río Piedras (54).

XYLARIA POLYMORPHA (Pers.) Grev. (?).

On dead wood, Mayagüez (Stevens) (82).

XYLARIA PORTORICENSE Klotzsch.

Reported from both the Schwanecke and Sintenis collections (in the latter as forma *minor*), but nothing further is known about the species (50, 76).

XYLARIA SCHWEINITZII Berk.

On dead wood, Aibonito, Río Piedras.

XYLARIA SCOPIFORMIS Mont.

On dead wood. Río Piedras, Martín Peña; Utuado (Sintenis) (76). A specimen from Cabo Rojo reported by Stevens (82) as X. hypoxylon (L.) Grev. belongs here (54).

HYSTERIACEÆ.

LEMBOSIA AGAVES Earle.

On Agave sp., Cabo Rojo (Heller) (18).

LEMBOSIA COCCOLOBÆ Earle.

On Coccoloba uvifera, Cangrejos. First reported from the Heller collection (21).

LEMBOSIA DIFFUSA Wint.

On Miconia sp. Coll. N. Y. Bot. Garden (Heller).

Triblidium rufulum Spreng.

On dead sticks, Martín Peña, Pueblo Viejo, Río Piedras, Espinosa, Garrochales, Carolina, Bayamón, Campo Alegre, El Duque (96).

PEZIZACEÁ

COOKEINA SULCIPES (Berk.) Q. Kuntze.

On dead and rotten wood, Río Piedras, Mameyes.

COOKEINA TETRASPORA Seaver.

On palm leaves, El Yunque.

COOKEINA TRICHOLOMA (Mont.) O. Kuntze.

On dead wood, Río Piedras.

LACHNEA CUBENSIS (B. & C.) Sacc.

On dead sugar-cane stalks and debris, Río Piedras (48).

PHILLIPSIA DOMINGENSIS Berk.

On dead wood, Río Piedras, Mameyes, Martín Peña.

ASCOBOLACEÆ.

ASCOBOLUS MAGNIFICUS Dodge.

On cow manure, Río Piedras.

Ascobolus stercorarius (Bull). Rehm. Fimicole. Col. N. Y. Bot. Garden.

ASCODESMIS PORCINA Seaver.

Fimicole, Mayagüez (Fawcett) (75).

ASCOPHANUS CARNEUS (P.) Boud.

On debris. Coll. N. Y. Bot. Garden.

ASCOPHANUS GRANULATUS (Bull.) Speg.

On debris, Aibonito, Mayagüez, El Yunque (Fink)

ASCOPHANUS TESTACEUS (Mong.) Phil.

On rotting leather, Bayamón.

SACCOLOBUS KERVERNI (Crow.) Boud.

Coll. N. Y. Bot. Garden.

SACCOLOBUS PORTORICENSIS Seaver.

Coll. N. Y. Bot. Garden

HELOTIACEÆ.

HELOTIUM CITRINUM (Hedw.) Fr.
On dead wood. Coll. N. Y. Bot. Garden.

MOLLISIACEÆ.

TRICHOBELONIUM ALBOSUCCINEUM Rehm.
On dead leaves. Coll. N. Y. Bot. Garden

PATELLARIACE &

KARSCHIA LIGNYOTA (Fr.) Sacc.

On dead wood, Manatí (Fink).

LECANIDION CYANEUM (Cooke) Sacc.

On dead citrus twigs, Campo Alegre (96).

DERMATEACEÆ.

MIDOTIS HETEROMERA Mont.

On wood, Mt. Cienege (Sintenis) (76).

ORBILIA CHRYSOCOMA (Bull.) Sacc.

On dead wood. Coll. N. Y. Bot. Garden.

STICTIDACEÆ.

STICTIS FOLICOLA B. & C.

On dead leaves, Río Piedras.

STICTIS RADIATA Pers.

On dead citrus twigs, Campo Alegre, Sabana Llana, Espinosa, Río Piedras (96).

BASIDIOMYCETES.

USTILAGINACEÆ.

CINTRACTIA AXICOLA (Berk.) Cornu.

On Fimbristylis sp., Quebradillas, Bayamón, Mayagüez (Stevens)
(82).

Fimbristylis diphylla, Dorado, Río Picdras: El Yunque, San Juan, Quebradillas, Lares (Stevens) (82).

Fimbristylis ferruginea, Santurce (Stevens) (4).

CINTRACTIA AXICOLA MINOR Clinton.

On Cyperus sphacelatus, Campo Alegre, Naguabo; Río Piedras (W. & O.) (14).

CINTRACTIA LEUCODERMA (Berk.) P. Henn.

(Cintractia Krugiana P. Magnus) (76).

On Rynchospora sp., Río Piedras, Pueblo Viejo, Bayamón; Cataño, El Yunque, Manatí (Stevens) (82).

Rynchospora gigantea, Martín Peña: Manatí (Sintenis).

Rynchospora corymbosa, Pueblo Viejo, Mayagiiez, Cataño (Stevens) (14, 76, 82).

CINTRACTIA LIMITATA Clinton.

On Cyperus ligularis, Mayagüez, San Juan (Clinton); Boquerón (Stevens) (14, 82).

CINTRACTIA UTRICULICOLA (P. Henn.) Clinton.

On Rynchospora aurea, Mayagüez (Stevens) (82).

Rynchospora corymboşa, Río Piedras; Mayagüez (Stevens) (14, 82).

Mykosyrinx cissi (D. C.) G. Beck.

(Schræteria cissi D. C.) (76).

On Cissus acida, Salinas, Cabo Rojo (Sintenis).

Cissus erosa, Maricao (Sintenis).

Cissus sicyoides (14).

SPHACELOTHECA PANICI-LEUCOPHÆI (Bref.) Clinton.

On Valota insularis (Trichachne insularis), Campo Alegre; Barceloneta, Boquerón (W. & O.); Coamo Springs (Stevens) (14, 82).

SPHACELOTHECA PASPALI-NOTATI (P. Henn) Clinton.

On Paspalum sp., Río Piedras.

TOLYPOSPORELLA BRUNKII (E. & G.) Clinton.

On Andropogon Bicornis, El Yunque (W. & O.).

USTILAGO SEGETUM Dittm.

Reported from the Schwanecke Collection (50). Host not given.

USTILAGO AFFINIS E. & E.

On Stenotaphrum secundatum, Río Piedras, Campo Alegre, Cayey; Barceloneta (W. & O.); Arecibo, Bayamón, Punta Santiago (Stevens) (82).

USTILAGO ZEÆ (Beckm.) Unger.

On Zea mays, Garrochales, Río Piedras; San Germán (Stevens) (14, 82, 90, 94).

TILLETIACEÆ.

BURRILLIA ECHINODORI Clinton.

On Echinodorus cordifolius, Palo Seco; Guánica (Stevens) (82). Doassansia Sintenisii Bres.

Reported from the Sintenis collection (76), but said by Clinton (14) to be insect work only.

ENTYLOMA AUSTRALE Speg.

On Physalis sp. (14).

ENTYLOMA GUARANITICUM Speg.

On Bidens leucantha, Río Piedras, Palo Seco, Bayamón (14).

ENTYLOMA LOBELIÆ Farl.

On Lobelia sp. (14).

THECAPHORA PUSTULATA Clinton (n. sp.).

On Bidens leucantha, Camuy; Mayagüez (W. & O.).

UROCYSTIS CEPULÆ Frost.

On Allium sepa. Mentioned by Henricksen (36, 90). Occurrence in Porto Rico doubtful.

UREDINALES.1

COLEOSPORIACEZE.

COLEOSPORIUM ELEPHANTOPODIS (Schw.) Thüm.

On Elephantopus mollis, Espinosa, Río Piedras, Naguabo; Maricao, Corozal, Yauco, Jájome Alto, Jayuya, Mayagüez, Dos Bocas, Santana (Stevens); Bayamón (Holway); Mayagüez (Heller) (1, 19).

COLEOSPORIUM EUPATORII Arthur.

On Eupatorium macrophyllum, Garrochales. First report from Porto Rico.

¹The Uredinales of Porto Rico have been very completely dealt with by Dr. Arthur in his publications in Mycologia (3, 4), based on the collections of Dr. F. L. Stevens and those of Prof. H. H. Whetzel and Dr. E. W. Olive. The list given here is based upon these papers, with the addition of the localities of our collections and three previously unreported species. Citations to the papers by Dr. Arthur are omitted since practically all species are there included.

COLEOSPORIUM IPOMή (Schw.) Burr.

On Ipomæa angustifolia, Campo Alegre.

Ipomæa balatas, Río Piedras; Naguabo (Stevens); Barceloneta, El Yunque (W. & O.)² (6, 81, 90, 94).

Ipomæa littoralis, San Juan (Holway).

Ipomæa nil, Guayanilla (Stevens).

Ipomæa rubra, Río Piedras; El Yunque (W. & O.).

Ipomæa stolonifera, Santurce; Vieques (Shafer) (102).

Jacquemontia tamnifolia, Río Piedras; Añasco (W. & O.).

Quamoclit coccinea, Vieques (Shafer).

Coleosporium plumieræ Pat.

On Plumiera alba, Guánica (W. & O.).

Plumiera Krugii, Maricao, Monte Alegrillo (Stevens).

Plumiera obtusa, Mona Island (Stevens) (12).

UREDINACEÆ.

CEROTELIUM, CANAVALIÆ Arth.

On Canavali sp., Río Piedras, Garrochales, Espinosa, Campo Alegre (1, 94).

Canavali ensiformis, Mayagüez (Clinton); Manatí (Stevens); Barceloneta (W. & O.).

Canavali gladiata, Mayagücz (Thomas); Río Piedras (Stevens) (82).

KUEHNBOLA FICI (Cast.) But.

On Carica papaya, reported from the Whetzel and Olive collection, but an error. The fungus on this host is Pucciniopsis caricæ Earle.

Ficus carica, Naguabo; San Juan (Earle) (1, 81, 94).

Ficus crassinervia, El Yunque (W. & O.).

Ficus levigata, Santurce, Vega Baja, Mona Island, Cabo Rojo, Dos Bocas (Stevens); Barceloneta (W. & O.).

Ficus lentiginosa, Mayagüez, Yauco (W. & O.).

Ficus sp., Jayuya (Stevens).

KUEHNEOLA GOSSYPII (Lagerh.) Arth.

On Gossypium barbadense, Garrochales, Trujillo Alto; Isabela, Mona Island (Stevens) (12, 20, 81).

Gossypium brasiliense, Dos Bocas (Stevens).

Gossypium hirsutum, Mayagüez (Earle); Añasco, Yauco, Barceloneta (W. & O.) (1).

Gossypium sp., Río Piedras, (W. & O.).

² Whetzell and Olive.

KUEHNEOLA MALVICOLA (Speg.) Arth.

On Malache scabra, Martín Peña (W. & O.).

MILESIA COLUMBIENSIS (Dietel) Arth.

On Nephrolepis rivularis, Agucaltaria (Stevens).

OLIVEA CAPITULIFORMIS (P. Henn.) Arth.

(Uredo capituliformis P. Henn.)

On Alchornea latifolia, Naguabo; El Yunque (W. & O.); Preston's Ranch, Luquillo (Stevens).

OLIVEA PETITIÆ Arth.

On Petitia domingensis, Maricao (W. & O.).

Physopella concors Arthur.

(Uredo concors Arthur.)

On Dolichos lablab, Bayamón; El Yunque (W. & O.); Jayuya (Stevens).

Phaseolus lunatus, Bayamón, Mayagüez (94).

Teramnus uncinatus, Jayuya (Stevens).

PHYSOPELLA MEIBOMLÆ Arth.

On Meibomia supina, Añasco, Río Tanamá (W. & O.).

PHYSOPELLA VITIS (Thüm) Arth.

On Vitis vinifera, Pastillo Springs, Mayagüez (Stevens); Maricao (W. & O.) (81).

SCHRETERIASTER FENESTRALA Arth.

(Uredo fenestrala Arth.)

On Phyllanthus distichus, Sabana Llana; Mayagüez, Guánica (W. & O.).

Phyllanthus grandifolius, Bayamón, Villa Alba, Martín Peña (Stevens).

Phyllanthus niruri, Río Piedras.

ÆCIDIACEÆ (PUCCINIACEÆ).

ARGOMYCES INSULANUS Arth.

On Vernonia albicaulis, Dos Bocas (Stevens).

Vernonia longifolia, Villa Alba (Stevens).

ARGOMYCES VERNONIÆ Arth.

On Vernonia albicaulis, Bandera (Stevens).

Vernonia borinquensis, Consumo, Jájome Alto, El Gigante (Stevens); Cayey (Holway); Maricao (W. & O.) (1).

Vernonia phyllostachya, Cabo Rojo (Stevens); Barceloneta (W. & O.).

BOTRYORHIZA HIPPOCRATEA W. & O.

On Hippocratea volubilis, Río Piedras, Espinosa, Campo Alegre; Mayagüez, Barceloneta, El Yunque (W. & O.); Ciales, Rosario, Maricao, Vega Baja, San Germán, Luquillo, Joyuda (Stevens) (71, 82).

ENDOPHYLLUM CIRCUMSCRIPTUM (Schw.) W. & O.

(Aecidium circumscriptum Schw.)

On Cissus sicyoides. Río Piedras, Comerío, Pueblo Viejo, Camuy, Guaynabo; Mayagüez, San Germán, Luquillo, Corozal, Manatí, Aguada, Aguadilla, Jájome Alto. Cuayanilla, Jayuya, El Gigante, Cabo Rojo, Dos Bocas, Naguabo (Stevens); Maricao, Río Tanamá, Coamo (W. & O.) (71).

Endophyllum decoloratum (Schw.) W. & O.

(Aecidium decoloratum Schw.)

On Clibadium erosum, Jájome Alto (Stevens); El Yunque (W. & O.) (71).

ENDOPHYLLUM STACHYTARPHETÆ (Henn.) W. & O.

On Valerianodes cayennensis, Espinosa, Río Piedras (71).

ENDOPHYLLUM WEDELLÆ (Earle) W. & O.

(Aecidium wedeliæ Earle.)

On Wedelia trilobata, Cataño, Trujillo Alto, Río Piedras, Campo Alegre; Mayagüez, Cabo Rojo, Utuado, Maricao, Santana, El Gigante (Stevens); Barceloneta (W. & O.) (19, 71).

Endophylloides portoricensis W. & O.

(Aecidium expansum Diet.)

On Mikania cordifolia, Naguabo; Coamo Springs, Mayagüez, Yauco, Monte de Oro, Lares, Jájome Alto, Dos Bocas, Villa Alba (Stevens); Maricao, San Germán, El Duque (W. & O.).

Mikania odoralissima, El Yunque, El Duque (W. & O.) (71).

HEMILEIA VASTATRIX Berk. & Br.

Said to have been introduced once on Coffee arabica (1, 81), but eradicated.

PROSPODIUM APPENDICULATUM (Wint.) Arth.

On Stenolobium stans, Hormigueros (Stevens); Santurce (W. & O.).

PROSPODIUM PLAGIOPUS (Mont.) Arth.

On Tecoma pentaphylla, Añasco, Río Piedras (W. & O.).

PUCCINIA ANGUSTATOIDES Stone.

On Rynchospora aurea, Mayagüez (Clinton).

Rynchospora corymbosa, Pueblo Viejo; Mayagücz (W. & O.).
Rynchospora cyperoides, El Yunque, Cataño (W. & O.).

PUCCINIA ARECHAVELATÆ Speg.

On Cardiospermum halicacabum, Guánica (Sintenis) (76).

Cardiospermum microcarpum, Santana, Bayamón; Quebradillas, Desecheo (Stevens); San Juan (Holway); Fajardo, Maricao (W. & O.).

PUCCINIA BLECHI Lagerh.

On Blechum Brownci, Río Piedras, Sierra de Naguabo; Mayagüez (Stevens).

PUCCINIA CAMELIÆ (Mayor) Arthur.

On Chatochloa setosa, Mona Island (Stevens) (12).

PUCCINIA CANALICULATA (Schw.) Lagerh.

On Cyperus articulatus, Naguabo.

Cyperus cayennensis, Mayagüez (Clinton).

Cyperus distans, Porto Rico (Stevens)

Cyperus ferax, Río Piedras; Naguabo (Olive).

Cyperus giganteus, Mayagüez (W. & O.).

Cyperus lavigatus, Guánica (Stevens); Mayagüez (W. & O.).

Cyperus odoratus, San José, Río Piedras (Stevens); Martín Peña, Naguabo (W. & O.).

Cyperus polystachus, Cataño (Heller).

Cyperus radiatus, Canóvanas, Pueblo Viejo: Mayagüez (Stevens); Naguabo (W. & O.).

Cyperus reticulatus, Naguabo (W. & O.).

Cyperus spathcelatus, Espinosa, Sabana Llana, Río Piedras; Mayagüez, La Carmelita (Clinton); Campo Alegre, Cataño (W. & O.).

Cyperus surinamensis, Bayamón, Martín Peña; Añasco (Heller); Naguabo (Olive).

Cyperus sp., Villa Alba (Stevens).

Kyllingia brevifolia, Martín Peña (W. & O.).

Kyllingia pumila, Pueblo Viejo, Río Piedras; Añasco, El Yunque (W. & O.).

PUCCINIA CANNÆ (Wint.) P. Henn.

On Calathea lutea, Mayagüez (Stevens) (81).

Canna coccinea, Mameyes (Stevens); Maricao (W. & O.). Canna glauca, Cabo Rojo (Stevens).

Puccinia cannæ (Wint.) P. Henn.—Continued.

On Canna sp., Espinosa, Naguabo, Campo Alegre, Río Piedras, Santurce, Corozal, Mayagüez, Añasco, Rosario (Stevens); Barceloneta (W. & O.).

Thalia geniculata, Añasco, Mayagüez (Stevens).

PUCCINIA CENCHRI Diet. & Holw.

On Cenchrus carolinianus, Camuy (Stevens).

Cenchrus echinatus, Guánica, Mona Island (Stevens); Mayagüez, Boquerón, Yauco, San Germán, Barceloneta, Río Tanamá (W. & O.) (12).

Cenchrus viridis, Campo Alegre; Guánica, Mona Island, Guayama (Stevens).

PUCCINIA CLADII Ell. & Tracy.

On Mariscus jamaicensis, Martín Peña (W. & O.).

PUCCINIA CONCRESCENS E. & E.

On Asclepias curassavica, Espinosa, Ciales; Vega Baja, Aibonito, Manatí, Jájome Alto (Stevens); Comerío (Holway); Maricao (W. & O.) (1).

Asclepias nivea, Maricao (W. & O.).

PUCCINIA CORDIÆ Arth.

On Cordia alliodora, Ponce (Holway).

Puccinia crassipes Berk. & Curt.

On Ipomæa triloba, Cortada, Mona Island (Stevens) (12).

PUCCINIA CUTICULOSA (Ell. & Ev.) Arth.

On Cydista aquinoctialis, Martín Peña (W. & O.).

PUCCINIA CYNODONTIS De Lac.

On Capriola dactylon, Río Piedras: Mayagücz (Stevens); Naguabo (W. & O.).

Puccinia deformata Berk. & Curt.

On Olyra latifolia, San Germán (Stevens).

PUCCINIA ELEOCHARIDIS Arth.

On Eleocharis capitata, Martín Peña; Laguna San José (Stevens); Mayagüez (W. & O.).

Eleocharis cellulosa, Santurce (Stevens).

Eleocharis flaccida, Bandera (Stevens).

Eleocharis geniculata, Naguabo; Mayagüez (Stevens); Añasco (Heller) (19).

Eleocharis interstincta, Mayagüez (Stevens).

Eleocharis mutata, Guanajibo (Stevens); Martín Peña (W. & O.).

Puccinia eleocharidis Arth.—Continued.

On Elcocharis sp., Cataño (Stevens); Mayagüez (Heller, Clinton).

PUCCINIA EUPHORBIÆ P. Henn.

On Aklema petiolaris, Mona Island (Stevens) (12).

PUCCINIA FALLACIOSA Arth.

(Uredo fallaciosa Arthur.)

On Palicourea crocea, Mayagüez, Maricao (W. & O.).

Palicourea riparia, El Yunque (W. & O.).

Psychotria patens, Maricao, Ponce (Stevens).

PUCCINIA FARINACEA Long.

On Salvia coccinca, El Gigante (Stevens); Mayagüez, Maricao (W. & O.).

PUCCINIA FIMBRISTYLIDIS Arth.

On Fimbristylis diphylla, Río Piedras; Ponce (Stevens); Barceloneta, Campo Alegre (W. & O.).

Fimbristytis ferruginea, Martín Peña; Joyuda, Santuree (Stevens).

Fimbristylis milacea, Río Piedras.

Fimbristylis sp., Mayagüez (Clinton).

PUCCINIA GOUANIÆ Holw.

On Gouania lupuloides, Rosario, Yauco, Cabo Rojo (Stevens); Mayagüez (Holway).

Gouania polygama, Mayagüez, Rosario, Lares, Aguadilla, San Germán (Stevens); Añasco (W. & O.).

Puccinia heliconiæ (Deit.) Arth.

(Uredo heliconiæ Diet.)

On Bihai borinquena, El Yunque (W. & O.). The new combination made by Dr. Arthur in Bul. Tor. Bot. Club, v. 75, no. 4, April 1918, pp. 144-5.

PUCCINIA HETEROSPORA B. & C.

(Uromyces pavoniæ Arth.)

On Abutilon hirtum, Guánica (Stevens).

Abutilon indicum, Peñuelas, Tallaboa, Coamo (Sintenis) (76).

Malache scabra, Mayagüez, Jayuya (Underwood).

Sida cordifolia, Cabo Rojo (Sintenis) (76).

Sida glutinosa, Villa Alba (Stevens).

Sida hederifolia, Mayagüez (W. & O.).

Sida humilis, Martín Peña; Boquerón (Stevens); Vieques (Shafer): Yauco (W. & O.); Guánica (Sintenis) (76).

Puccinia heterospora B. & C.—Continued.

On Sida procumbens, Guánica, Desecheo (Stevens).

Sida spinosa, Guayama (Stevens).

Sida urens, Garrochales, Río Piedras; Guayanilla, Coamo Springs, Vega Baja, Yauco, Maricao, Rosario, Vega Alta, Ponce, Aguada, El Gigante, Mayagüez (Stevens); Añasco, Boquerón (W. & O.).

Wissadula periplocifolia, Coamo Springs, Guánica (Stevens).

PUCCINIA HUBERI P. Henn.

On Panicum fasciculatum, Vega Baja; Río Tanamá (Stevens); Barceloneta (W. & O.).

Panicum trichoides, Aibonito, Río Piedras; Villa Alba, Maricao, Adjuntas, Jayuya (Stevens); La Carmelita (Clinton); Mayagüez, Río Tanamá (W. & O.).

Panicum utowanœum, Mona Island (82).

PUCCINIA HYDROCOTYLES (Link.) Cook.

On Hydrocotyle australis, Pueblo Viejo. Hydrocotyle umbellata, Mayagüez, Yauco (W. & O.).

Puccinia hyptidis (M. A. Curt.) Tracy & Earle.

On Hyptis capitata, Río Piedras, Mayagüez; Bayamón (Holway); Maricao (W. & O.); Villa Alba, Coamo Springs, Vega Baja, Añasco, Rosario, Quebradillas, Monte de Oro, Lares, El Gigante (Stevens).

PUCCINIA INFLATA Arth.

On Stigmaphyllon lingulatum, Santurce, Mayagüez; Ponce (Holway); Desecheo, Boquerón, Guánica, Coamo Springs, Mona Island (Stevens); Yauco, Fajardo, Coamo (W. & O.) (12).

Puccinia insititia Arth.

On Hyptis lantanifolium, Aibonito (Stevens); Maricao (W. & O.).

Puccinia Lantanæ Farl.

On Lantana camara, Guánica, Lares, Guayanilla (Stevens).

Lantana involucnata, Quebradillas; Boquerón, Arecibo, Quebradillas, San Germán, Mona Island (Stevens); Yauco (W. & O.).

PUCCINIA LATERITIA Berk. & Curt.

On Borreria lævis, Río Piedras, Canóvanas; Mayagüez (Clinton); Vega Baja, Cabo Rojo, Coamo Springs, San Sebastián (Stevens).

Puccinia Lateritia Berk & Curt.—Continued.

On Borreria verticillata, Río Piedras: Mayagüez, Boquerón, Bayamón, Indiera Fría, Cataño, Utuado, Lares, Aguada, Quebradillas (Stevens); Maricao, San Germán, Barceloneta (W. & O.).

Diodia littoralis, Boquerón (W. & O.).

Diodia maritima, Palo Seco, Cataño; Mayagüez (Stevens), Santurce (W. & O.).

Diodia rigida, Campo Alegre, Espinosa, Garrochales, Camuy, Naguabo; Manatí, Río Piedras (Stevens); Mayagüez, Barceloneta (W. & O.).

Ernodea littoralis, Boquerón, Mona Island (Stevens) (12). Mitracarpus portoricensis, Guánica (Stevens).

Spermacoce riparia, Aguadilla (Stevens).

Spermacoce tenuior, Campo Alegre; Hormigueros, Guánica, Coamo Springs, Cabo Rojo, San Germán (Stevens); Vieques (Shafer) (102).

Puccinia leonotidis (P. Henn.) Arthur.

On Leonotis nepctæfolia, Río Piedras, Espinosa; Yabucoa, Coamo Springs, Hormigueros, Bayamón, Lares, Guayama, Guayanilla (Stevens); Ponce (Holway); Mayagüez, Yauco, Boquerón, Barceloneta (W. & O.).

Puccinia levis (Sacc. & Bizz.) Mag.

On Paspalum fimbriatum, ('abo Rojo (Stevens); Yauco (W. & O.).

Paspalum millegrana, Campo Alegre (W. & O.).

Paspalum plicatulum, Río Piedras; Vega Baja (Stevens).

Rytilix granularis, Rosario (Stevens); Maricao (Sintenis) (76).

Puccinia lithospermi Ell. & Kellerm.

On Evolvulus nummularius, Mayagüez, Añasco (W. & O.).

Puccinia macropoda Speg.

On Iresine elatior, Desecheo (Stevens).

Puccinia medellinensis Mayor.

On Hyptis atrorubens, Río Piedras, Espinosa; Santurce (Stevens); Martín Peña, Naguabo (W. & O.).

Hyptis pectinatum, Río Piedras; Villa Alba, Coamo Springs, Corozal, Mayagüez, Rosario, Lares, Cabo Rojo (Stevens); Maricao, Yauco (W. & O.) (1). Puccinia medellinensis Mayor.—Continued.

On Hyptis snaveolens, Vega Baja; Mayagüez, Ponce, Aguada, Guayama, Guayanilla (Stevens); La Carmelita (Clinton); Aibonito (Holway); Añasco (W. & O.).

PUCCINIA OBLIQUA Berk. & Curt.

On Metastelma lineare, Espinosa; Barros (Stevens); Maricao (W. & O.).

Metastelma parviflorum, Vega Baja, Quebradillas (Stevens); Mayagüez (W. & O.).

Puccinia ormosiæ Arth.

On Ormosia Krugii, Sierra de Naguabo: El Yunque (W. & O.).

PUCCINIA POLYGONI-AMPHIBII Pers.

On Persicaria portoricensis, Río Piedras.

Persicaria punctata, Sabana Ilana; Mayagüez, Coamo (W. & O.).

PUCCINIA PSIDII Wint.

On Jambos jambos, Consumo, Maricao, Río Piedras, Barros, Villa Alba, Monte de Oro, Jájome Alto, El Gigante (Stevens).

Psidium guayava, Villa Alba (Stevens).

PUCCINIA PURPUREA Cooke.

On Holcus halepensis, Palo Seco, Sabana Idana, Vega Baja.

Holcus sorghum, Patillas, Mayagüez, Río Piedras, Ensenada, Trujillo Alto; La Carmelita (Clinton) (94).

Holcus sorghum var. sudancusis, Río Piedras, Trujillo Alto; Mayagüez (W. & O.) (94).

Puccinia rivinæ (Berk. & Curt.) Speg.

On Rivina humilis, Desceheo (Stevens); Yauco (W. & O.); Fajardo (Sintenis) (76).

Trichostigma octandrum, Yauco, Coamo (W. & O.).

Puccinia rosea (Diet. & Holw.) Arth.

On Ageratum conyzoides, Villa Alba, Utuado, Monte Allegrillo (Stevens); Yauco (W. & O.).

Eupatorium polyodon, Barros (Stevens).

PUCCINIA SALVICOLA Diet. & Holw.

On Salvia occidentalis, Camuy, Palo Seco; Mayagüez, Corozal, Aguada (Stevens): Caguas (Heller); La Carmelita (Clinton); Ponce (Holway); Maricao, Yauco (W. &-O.);

PUCCINIA SCIRPI De.

On Scirpus lacustris, Guánica (Heller).

Puccinia scleriæ (Paz.) Arth.

(Aecidium passifloricola P. Henn.)

On Scleria cubensis, Maricao (W. & O.).

Scleria pterota, Mayagüez, Maricao, El Yunque, Naguaho (W. & O.).

Passiflora rubra, Mayagüez (Stevens); Maricao (W. & O.) (97).

PUCCINIA SCLERIICOLA Arth.

On Scleria hirtella, Río Piedras. Scleria sp., Naguabo (Stevens).

PUCCINIA SMILACIS Schw.

On Smilax domingensis, Maricao (W. & O.).

PUCCINIA SPEGAZZINI Det.

On Mikania scandens, Mayagüez (W. & O.).

PUCCINIA SUBSTRIATA.

(Aecidium tubulosum Pat. & Gaill.)

On Chatochloa geniculata, Río Piedras.

Eriochloa subglabra, Río Piedras, Mayagüez.

Ichnanthus pallens, Mayagüez, El Yunque (W. & O.).

Paspalum glabrum, Vega Baja (Stevens).

Paspalum orbiculatum, Monte de Oro (Stevens).

Paspatum panieulatum, Naguabo, Río Piedras; Mayagüez, Monte Alegrillo (Stevens); Maricao, San Germán (W. & O.).

Paspalum portoricense, Vega Baja.

Paspalum secans, Campo Alegre; Bayamón (Holway).

Syntherisma digitata, Río Piedras; Barceloneta, El Duque (W. & O.).

Valota insularis, Vega Baja, Campo Alegre: Boquerón, San Germán (W. & O.).

Solanum torvum, Río Piedras, Trujillo Alto, Vega Baja; Maiyagüez (Heller); San Juan (Holway); Corozal, Yauco, Rosario, El Gigante, Maricao, Lares, Jájome Alto, Monte de Orc, Cayey, Jayuya, Cabo Rojo (Stevens); Utuado (W. & O.) (97).

PUCCINIA SYNEDRELLÆ P. Henn.

On Eleutheranthera ruderalis, Carolina, Río Piedras; Mayagüez, Aguada (Stevens).

Emilia sonchifolia, Bayamón, Río Piedras, Ponce, Espinosa; Hormigueros, Guayama, Yauco, San Germán (Stevens); Mayagüez, Maricao, Añasco (W. & O.). PUCCINIA SYNEDRELLÆ P. Henn.—Continued.

On Neurolana lobata, Florida Adentro (Stevens).

Synedrella nodiflora, Río Piedras, Trujillo Alto; Barros, Caguas, Cabo Rojo, Santa Catalina, Yauco, Isabela, Rosario, Alegrillo, Lares, San Sebastián, Guayama, Monte de Oro, Jájome Alto, Utuado, Guayanilla (Stevens); Mayagüez, El Duque (W. & O.).

PUCCINIA TAGETICOLA Diet. & Holw.

On Tagetes erecta, Maricao (W. & O.). Tagetes patula, Maricao (Stevens).

PUCCINIA URBANIANA P. Henn.

On Valerianodes cayennensis, Santurce.

Valerianodes jamaicensis, Río Piedras, Camuy, Campo Alegre, Naguabo, Añasco; Santurce, Vega Baja, Manatí, Guayama, Dos Bocas (Stevens); San Juan (Earle); Mayagüez (Clinton); Boquerón, San Germán, Barceloneta, Fajardo, Campo Alegre (W. & O.).

Valerianodes strigosa, Cabo Rojo, Mona Island (Stevens); Coamo, Mayagüez (W. & O.).

PUCCINIA XANTHII Schw.

On Xanthium longirostre, Santurce.

PUCCINIA ZORNIÆ (Diet.) McAlp.

On Zornia diphylla, Río Piedras; Mayagüez (W. & O.).

PUCCINIOSIRA PALLIDULA (Speg.) Lagerh.

On Triumfetta lappula, Ponce (Heller) (1).

Triumfetta rhomboidea, Bayamón; Santurce, Aguada, Mayagüez (Stevens).

Triumfetta semitriloba, Mayagüez, Maricao, Yauco (W. & O.). Triumfetta sp., Río Piedras, Pueblo Viejo, Espinosa; Villa

Alba, Mayagüez, Bayamón, Aibonito, Maricao, Rosario, El Gigante, Dos Bocas (Stevens).

RAVENELIA CÆSALPINIÆ Arth.

On Mimosa ceratonia, Río Piedras; Bayamón, Vega Baja, Monte Allegrillo, Santa Catalina, Cabo Rojo, Indiera Fría, Aibonito, Vega Alta, San Sebastián, Lares, Manatí, Luquillo Forest, San Germán, El Gigante, Naguabo (Stevens); Mayagüez, Maricao, Barceloneta (W. & O.) (1).

RAVENELIA CASSIÆCOLA Atks.

On Chamacrista aschynomene, El Gigante (Stevens).
Chamacrista glandulosa, Vega Baja, Trujillo Alto.

RAVENELIA CAULICOLA Arth.

On Cracca cinerca, Cataño, Santurce; Quebradillas, Desecheo (Stevens).

RAVENELIA CEBIL Speg.

On Piptadenia peregrina, Peñuelas (Stevens).

RAVENELIA INDIGOFERÆ Tranz.

On Indigofera suffruticosa, Cataño, Espinosa; Boquerón, Bayamón, Jayuya, Mayagüez, Aguada (Stevens); Añasco, Yauco, Barceloneta, Naguabo (W. & O.).

RAVENELIA HUMPHREYANA P. Henn.

On Casalpinia pulcherrima, Río Piedras (94).

RAVENELIA INGÆ (P. Henn.) Arthur.

On Inga laurina, Maricao, El Yunque (W. & O.).

Inga vera, Monte Montosa, Monte Alegrillo (Stevens); Ponce (Barret) (1).

RAVENELIA PORTORICENSIS Arth.

On Cassia emarginata, Ponce (Heller) (1).

RAVENELIA SILIQUÆ Long.

On Vachellia Farnesiana, Yauco, Coamo (W. & O.).

RAVENELIA STEVENSII Arth.

On Acacia riparia, Guayanilla, Vega Baja, Peñuelas (Stevens); Coamo (W. & O.).

RAVENELIA WHETZELH Arth.

On Inga vera, Maricao, Mayagüez (W. & O.).

TRANZSCHELIA PUNCTATA (Pers.) Arth.

On Amygdalus persica, Naguabo; Mayagüez (Earle) (1, 94).

UROMYCES APPENDICULATUS (Pers.) Fries.

On Phaseolus adenanthus, Río Piedras; Vega Baja (Stevens); Caguas (Holway); Arecibo (Clinton); Mayagüez, Barceloneta (W. & O.).

Phaseolus lathyroides, Maricao (W. & O.).

Phaseolus vulgaris, Camuy, Barceloneta, Río Piedras; Cabo Rojo (Stevens); Mayagüez (Clinton, Earle); Maricao (W. & O.) (2, 20, 90, 94).

Vigna repens, Río Piedras; Arecibo (Stevens); Mayagüez (W. & O.).

Vigna vexillata, Mayagüez (Stevens).

UROMYCES BIDENTICOLA (P. Henn.) Arth.

On Bidens leucantha, Pueblo Viejo, Palo Seco. Vega Baja, Espinosa, Fajardo, Naguabo; Santurce, Aibonito, Añasco, Mayagüez, Monte Alegrillo, Lares, Aguada, Dos Bocas (Stevens); Yauco, Hormigueros, Barceloneta (W. & O.).

Biaens pilosa, Arecibo-Lares, Río Piedras, Río Tanamá, Maricao (Stevens); Boquerón, San Germán (W. & O.).

Cosmos caudatus, Barros, Jayuya (Stevens).

UROMYCES BIDENTIS Lagerh.

(Uromyces densus Arthur.)

On Bidens pilosa, Ponce (Stevens); Maricao (W. & O.).

UROMYCES CARYOPHYLLINUS (Schrank.) Wint.

On Dianthus sp., San Juan (94).

UROMYCES CESTRI Mont.

On Cestrum laurifolium, Martín Peña, Camuy; Cabo Rojo, Monte Alegrillo, Quebradillas, San Germán, Arecibo-Lares Road (Stevens); Fajardo, Campo Alegre (W. & O.).

Cestrum macrophyllum, El Duque, Barros, Maricao, Ponce, Monte Alegrillo, Lares, Luquillo Forest, Monte de Oro, Dos Bocas, Naguabo (Stevens); Maricao, Barceloneta, Río Tanamá (W. & O.).

UROMYCES COLOGANIÆ Arth.

On Teramnus uncinatus, Cayey (Holway) (2).

UROMYCES COLUMBIANUS Mayor.

On Melanthera canescens, Palo Seco. Aibonito, Río Piedras, Espinosa; Ciales, Añasco, Corozal, Yauco, Mayagüez, Vega Baja, Cayey, Cabo Rojo, Rosario, Utuado, Quebradillas, Guayanilla, Dos Bocas, Jayuya (Stevens); Maricao, Barceloneta (W. & O.).

UROMYCES COMMELINÆ (Speg.) Cooke.

On Commelina virginica, Desecheo (Stevens).

UROMYCES DOLICHOLI Arth.

On Cajanus indicus, Espinosa, Campo Alegre, Río Piedras; Guayanilla, Corozal, Jayuya, Rosario, Mayagüez, Vega Baja, Manatí, Quebradillas (Stevens); Yauco (W. & O.) (81, 90, 94).

Dolicholus eninimus, Guánica (W. & O.).

Dolicholus reticulatus, Boquerón, Aguada, Vega Baja (Stevens); Bayamón (Heller); Mayagüez (W. & O.).

UROMYCES ERAGROSTIDIS Tracy.

On Eragrostis tephrosanthes, Río Piedras; Bayamón (Stevens); San Germán (W. & O.) (2).

UROMYCES GEMMATUS Berk. & Curt.

On Jacquemontia nodiflora, Coamo Springs, Desecheo, San Germán, Guánica, Guayanilla (Stevens); Ponce (Holway).

UROMYCES HEDYSARI-PANICULATI (Schw.) Farl.

On Meibomia axillaris, Cabo Rojo (Stevens).

Meibomia scorpiurus, Mayagüez, Peñuelas (Stevens); Yauco (Heller).

Meibomia tortuosum, Sabana Llana; Yauco (W. & O.).

UROMYCES HELLERIANUS Arth.

On Cayaponia americana, Sierra de Naguabo; Maricao. Cabo Rojo (Stevens).

Cayaponia racemosa, Río Piedras, Campo Alegre; Corozal (Stevens); Mayagüez, Barceloneta, El Yunque, El Duque (W. & O.) (2).

Melothria guadalupensis, Río Piedras; Yauco, Rosario, Utuado, San Germán (Stevens); Mayagüez, El Duque (W. & O.).

UROMYCES HOWEI Peck.

On Asclepias curassavica, Comerío (Holway); Maricao (W. & O.).

UROMYCES IGNOBILIS (Sydow) Arth.

On Sporobolus indicus, Río Piedras, Campo Alegre; Mayagüez (Stevens); Naguabo (W. & O.).

Sporobolus virginicus, Camuy (Stevens).

UROMYCES JAMAICENSIS Vestery.

On Bauhinia pauletia, San Germán (Stevens); Mayagüez (Holway).

UROMYCES JANIPHÆ (Wint.) Arth.

On Manihot manihot, Río Piedras; Vega Baja (Stevens) (81, 90).
UROMYCES LEPTODERMUS SVdow.

On Lasiacis divaricata, Espinosa; Coleña, Utuado, San Germán, Maricao, Mona Island (Stevens).

Lasiacis ligulata, Maricao (W. & O.).

Lasiacis Sloanei, Arecibo (Stevens).

Lasiacis sorghoidea, Mayagüez, Maricao (W. & O.).

Panicum barbinode, Carolina, Río Piedras; Guánica, Boquerón, Mayagüez, Peñuelas (Stevens).

Panicum parviflorum, Martín Peña (W. & O.).

UROMYCES NEUROCARPI Dietel.

On Clitoria cajanifolia, Mayagüez (Stevens); San Juan (Britton) (2).

Clitoria rubigineza, Espinosa, Naguabo, Camuy, Santurce, Río Piedras: Dorado (Stevens); Mayagüez, Barceloneta, Martín Peña (W. & O.).

UROMYCES PIANHYENSIS P. Henn.

On Wedelia reticulata, San Germán (Stevens); Yauco, Río Tanamá (W. & O.).

UROMYCES PREMINENS (D. C.) Pass.

On Chamæsyce brasiliensis, Mayagüez (W. & O.).

Chamasyce hirta, Vega Baja, Camuy, Espinosa; Cataño, Vega Baja, Lares, Coamo Springs, Arecibo, Aguada, Guayama, Río Piedras, San Germán, Guayanilla (Stevens); Mayagüez (Clinton); Yauco, San Germán (W. & O.).

Chamasyce hypericifolia, Fajardo, Río Piedras; Lajas (Stevens).

Chamasyce prostrata, Río Piedras, Bayamón.

UROMYCES RHYNCOSPORÆ Ellis.

On Rynchospora distans, Martín Peña (W. & O.). Rynchospora micrantha, Naguabo (Stevens). Rynchospora setacea, Martín Peña (W. & O.) (2).

UROMYCES SCLERIÆ P. Henn.

On Scleria canescens, Jájome Alto, El Alto de la Bandera (Stevens); El Yunque (W. & O.).

Scleria pterota, Río Piedras, Vega Baja; Luquillo Forest (Stevens); Mayagüez, Añasco, Naguabo (W. & O.) (2).

UROMYCES SABINEÆ Arth.

On Sabinea punicea, Maricao (W. & O.).

FORM-GENUS: ÆCIDIUM.

AECIDIUM ABSCENDENS Arth.

On Randia aculeata, Martín Peña, Bayamón; Mayagüez. Cataño, Aguada (Stevens); Barceloneta, Campo Alegre (W. & O.).

AECIDIUM BORRERIÆ Pat.

On Hemidiodia ocimifolia, Sierra de Naguabo; Mayagüez (Stevens); El Yunque (W. & O.).

AECIDIUM CIRCUMSCRIPTUM Schw.

See Endophyllum circumscriptum.

AECIDIUM DECOLORATUM Schw.

See Endophyllum decoloratum.

AECIDIUM EXPANSUM Diet.

See Endophylloides portoricense.

AECIDIUM FAVACEUM Arth.

On Phyllanthus nobilis, San Germán, Hormigueros (Stevens).

AECIDIUM PASSIFLORICOLA P. Henn.

See Puccinia scleria.

AECIDIUM TOURNEFORTIÆ P. Henn.

On Tournefortia bicolor, Barceloneta (W. & O.).

Tournefortia hirsulissima, Río Piedras; Yauco, Rosario (Stevens).

Tourneforlia microphylla, Yauco (W. & O.).

AECIDIUM TUBULOSUM Pat. & Gaill.

See Puccinia substriatum.

AECIDIUM WEDELIÆ Earle.

See Endophyllum, wedelia.

FORM-GENUS: UREDO.

UREDO ÆSCHYNOMENIS Arth.

On Aeschynomene americana, Río Piedras, Campo Alegre; Mayagüez, Ponce, Maricao, Rosario, Utuado. Aguada (Stevens).

UREDO ANTHURII Hariot.

On Anthurium scandens, El Alto de la Bandera (Stevens).

UREDO ARACHIDIS Lagerh.

On Arachis hypogea, Espinosa, Río Piedras, Pueblo Viejo; Dorado (Stevens) (81, 90, 94).

UREDO ARTOCARPI B. & Br.

On Artocarpus comansi, Mayagüez (Stevens).

Artocarpus communis, Río Piedras; Mayagüez (Clinton) (1, 81).

UREDO BIXÆ Arth.

On Bixa orellana, Adjuntas (Stevens); Maricao (W. & O.).

UREDO CABRERIANA Kern & Kellerm.

On Erythrina glauca, Río Piedras, Guaynabo; Bayamón (Holway).

UREDO CLUSIÆ Arth.

On Clusia rosea, Maricao (W. & O.).

UREDO COCCOLOBÆ P. Henn.

On Coccoloba uvifera, Cataño; Mayagüez, Boquerón, San Germán (W. & O.).

UREDO COMMELYNEÆ Kalchbr.

On Commelina nudiflora, Palo Seco.

Commetina virginica, Palo Seco; Coamo Springs (Stevens); Arecibo (Heller); Sabana Llana (Goll).

UREDO CUPHEÆ P. Henn.

On Cuphea Parsonsia, Río Piedras; Cabo Rojo (Stevens); Mayagüez, Maricao, Añasco (W. & O.).

UREDO DICHROMENÆ Arth.

On Dichromena ciliata, Río Piedras, Sierra de Naguabo; Mayagüez (Clinton).

Dichromena radicans, Guayama (Stevens); Mayagüez, Maricao, Añasco, El Duque, Naguabo (W. & O.).

UREDO DIOSCOREÆ P. Henn.

On Dioscorea polygonoides, El Yunque (W. & O.).

Rajania cordata, Río Piedras, Sierra de Naguabo; Bayamón, Jájome Alto, El Gigante, Dos Bocas, Santana (Stevens); Maricao, Río Tanamá, Barceloneta, El Yunque (W. & O.).

UREDO ERYTHROXYLONIS Guz.

On Erythroxylon arcolatum, Mona Island (Stevens).

URDEO FUIRENÆ P. Henn.

On Fuirenia umbellata, Naguabo; Santurce, Aguas Buenas, Mayagüez, Santa Catalina, Cataño (Stevens); Bayamón (Holway); El Yunque (W. & O.).

UREDO GLOBULOSA Arth.

On Hypoxis decumbers, Campo Alegre, Río Piedras, Vega Baja; Las Marías, Bandera (Stevens); Maricao, Añasco (W. & O.).

UREDO GOUANIÆ Ellis & Kelsey.

On Gouania lupuloides, Garrochales, Camuy, Naguabo, Jájome Alto, Aguadilla, San Germán (Stevens). Gouania polygama, Guánica (Stevens).

UREDO GUACÆ Mayor.

On Epidendrum difforme, Cayey; Jájome Alto (Stevens). Epidendrum rigidum, Cayey (Holway). UREDO GYMNOGRAMMES P. Henn.

On Adiantum latifolium, Las Marías (Stevens); Mayagüez (W. & O.).

Dryopteris mollis, Mayagüez (W. & O.).

Dryopteris poiteana, Villa Alba (Stevens); Mayagüez, Maricao (W. & O.).

Gomiopteris guadalupensis, Mayagiiez (W. & O.).

Pityrogramma calomelæna, Maricao (W. & O.).

Tectaria marteniensis, Mayagüez (W. & O.).

UREDO GYNANDREARUM Corda.

On Habenaria maculosa, Cataño (Millspaugh); Bayamón (Heller).

Prescottia oligantha, Maricao (W. & O.).

UREDO HAMELIÆ Arth.

On Hamelia (recta, Espinosa; Lajas (Stevens); Yauco (W. & O.).

UREDO HELICONIÆ Diet.

See Puccinia heliconia.

UREDO HYMENÆÆ Mayor.

On Hymenaa courbaril, Martín Peña, Naguabo, Bayamón; Jayuya, Mayagücz, Añasco, Vega Baja (Stevens); Fajardo, Campo Alegre, Coamo (W. & O.).

UREDO JATROPHICOLA Arth.

On Jatropha curcas, Hormigueros (Stevens).

Jatropha gossypifolia, Río Piedras, Palo Seco, Martín Peña; San Germán, Guayama, Guayanilla (Stevens); Yauco, Río Tanamá (W. & O.).

UREDO LUTEA Arth.

On Cassia quinquangulata, Maricao, Jájome Alto, Naguabo (Stevens); El Yunque (W. & O.).

UREDO NIGROPUNCTATA P. Henn.

On Bletia patula, Maricao (Stevens).

UREDO NOTATA Arth.

On Byrsonima crassifolia, Mayagüez (W. & O.).

UREDO OLYRÆ P. Henn.

On Oplismenus hirtellus, Las Marías (Stevens).

UREDO OPERCULINÆ Arthur.

On Operculina dissecta, Yauco (W. & O.).

UREDO PALLIDA Diet. & Holw.

On Zea mays, Río Piedras, Punta Cangrejos, Sierra de Naguabo (90, 94).

UREDO PASPALICGLA P. Henn.

(Uredo Stevensiana Arth.)

On Axonopus compressus, Mayagüez (Stevens).

Bambusa vulgaris, Vega Baja, Espinosa; Maricao, Mayagüez (W. & O.) (94).

Paspalum conjugatum, Espinosa. Río Piedras; Adjuntas (Stevens); Mayagüez, Maricao (W. & O.).

Paspalum glabrum, Mayagüez (Stevens).

Paspalum paniculatum, Vega Baja (Stevens).

Paspalum plicatulum, Río Piedras, Guaynabo; Mayagüez (Stevens); Añasco (W. & O.).

UREDO PIPERIS P. Henn.

On Peperomia hernandifolia, El Alto de la Bandera (Stevens).

UREDO PLUCHEA Syd.

(Uredo biocellata Arth.)

On Pluchca odorata, Ponce, Vega Baja (Stevens); Guánica (Millspaugh).

Pluchea purpurascens, Santurce, Cabo Rojo, Mona Island (Stevens); Mayagüez (W. & O.) (12).

UREDO PROXIMELLA Arth.

On Lactuca intybacca, Sabana Grande (Stevens); Barceloneta (W. & O.).

UREDO PUSTULATA P. Henn.

On Stenorrhynchus lanceolatus, Las Marías (Stevens).

UREDO RUBESCENS Arth.

On Dorstenia contrajerva, Moca; Camuy (Stevens).

UREDO SABICEICOLA Arth.

On Sabicea aspera, Mayagüez (Stevens); Maricao (W. & O.).

UREDO SAUVAGESIÆ Arth.

On Sauvagesia erecta, Sierra de Naguabo; Jájome Alto (Stevens); El Yunque (W. & O.).

UREDO SPARGANOPHORI P. Henn.

On Struchium sparganophori, Carolina; Mayagüez (Stevens).

UREDO SUPERIOR Arth.

On Fimbristylis ferruginea, Martín Peña (W. & O.). Fimbristylis spadicea, Ponce (Heller); Mayagüez (W. & O.).

UREDO TRICHILIA Arth.

On Trichilia pallida, Maricao (W. & O.).

UREDO VENUSTULA Arth.

On Andropogon brevifolius, Río Piedras; Las Marías (Stevens).

UREDO VICINA Arth.

On Wedelia lanceolata, Guánica (Stevens)

TREMELLACEÆ.

AURICULARIA AURICULA-JUDÆ (L.) Schrt.

(Hirneola auricula-judæ Berk.)

On rotten wood, Río Piedras, El Duque, Barceloneta, Santana, Fajardo, Caguas, El Yunque, Espinosa, Moca, Mameyes, Dorado; Adjuntas (Sintenis, 76) (82).

AURICULARIA AURIFORMIS (S.) Earle.

(Exidia auriformis Fr.)

Reported from the Schwanecke collection (50).

AURICULARIA DELICATA (Fr.) Henn.

(Laschia lamellosa Pat.)

On dead wood, Río Piedras. Also reported from the Sintenis collection (76), Barceloneta.

AURICULARIA NIGRESCENS (Sw.) Farlow.

(Auricularia polytricha [Mont.] Sacc.)

On dead wood, Espinosa; Vieques (Shafer) (102).

GUEPINIA PALMICEPS Berk.

On sugar-cane debris and rotton wood, Río Piedras; Yabucoa (Sintenis, 76) (48).

GUEPINIA SPATHULATA Schw.

On rotten wood, Río Piedras, Espinosa, Sabana Llana; El Yunque (Stevens) (48, 82).

TREMELLA FUCIFORMIS Berk.

On humus, Bayamón.

TREMELLA RUFOLUTEA Berk.

On rotten wood, El Yunque.

CLAVARIACEÆ.

CLAVARIA FUMOSA Pers.

On soil, Martín Peña.

CLAVARIA INÆQUALIS Mull.

On soil, Río Piedras.

THELEPHORACEÆ.1

ASTEROSTROMA CERVICOLOR (B. & C.) Massee.

On soil and cane trash, Camuy, Río Piedras (48).

CLADODERRIS DENDRITICA Pers.

On dead sugar-cane stalk, Río Piedras.

¹ The majority of the determinations in this family by Dr. E. A. Burt.

CORTICIUM ARACHNOIDEUM Berk.

On soil and sugar-cane trash, Río Piedras.

CORTICIUM CONFLUENS Fr.

On dead citrus branch, Campo Alegre (96).

CORTICIUM CONTIGUUM Karst.

On dead wood, Río Piedras.

CORTICIUM DEBILE B. & C.

On dead wood, Río Piedras.

CORTICIUM INVESTIENS (Schw.) Bres.

On dead wood, Río Piedras, Martín Peña.

CORTICIUM KOLEROGA (Cooke) v. Höhn.

(Pellicularia koleroga Cooke.)

On Coffea arabica, Mayagüez (Thomas). The status of Pellicularia koleroga determined by Dr. Burt. ("Corticiums causing plant diseases." In Ann. Mo. Bot. Garden, v. 5, no. 2, April 1918, p. 119–132.) For additional Porto Rican data see under Pellicularia.

CORTICIUM LACTESCENS Berk.

On dead wood. Río Piedras.

CORTICIUM PORTENTOSUM B. & C.

On dead wood, Fajardo, Campo Alegre, Río Piedras, Martín Peña.

CORTICIUM SALMONICOLOR B. & Br.

On Citrus decumana, Río Piedras, Trujillo Alto, Garrochales, Espinosa (86, 89, 96).

Citrus sinensis, Pueblo Viejo.

Theobroma cacao, Mayagüez (Fawcett) (30).

CORTICIUM SIMILE B. & C.

On dead sticks, Río Piedras.

CORTICIUM SUBCONTINUUM B. & C.

On dead sticks, Río Piedras.

CORTICIUM TIPHRUM B. & C.

On dead wood, Bayamón.

CORTICIUM VAGUM B. & C.

On Solanum tuberosum. Reported by Barrett (6, 15), but occurrence doubtful.

HETEROCHÆTE ANDINA Pat.

On dead sticks, Bayamón.

HYMENOCHÆTE CACAO Berk.

Reported from the Sintenis collection (76).

HYMENOCHÆTE DAMÆCORNIS (Link.) Lev.

On dead wood, Adjuntas (Sintenis) (76).

HYMENOCHÆTE RUBIGINOSA (Schrad.) Lev.

On dead wood, El Duque, Río Piedras.

HYMENOCHÆTE SALLEI Berk.

On dead wood, Espinosa.

Hypochnus pallescens (Schw.) Burt.

(Corticium pallescens Schw.)

On dead wood, Río Piedras. The one collection cited by Dr. Burt in Ann. Mo. Bot. Garden, vol. 4, no. 3, Sept. 1917, pp. 267-8.

HYPOCHNUS RUBROCINCTUS Ehbg.

On dead wood, Porto Rico (Stevens) (82).

PENIOPHORA CINEREA Fr.

On dead twigs, and branches of *Citrus* spp., and other trees, Pueblo Viejo, Espinosa, Bayamón, Río Piedras, Campo Alegre (48, 89, 96).

PENIOPHORA FLAVIDO-ALBA Cooke.

On dead wood and cane trash, Río Piedras, Vega Baja, Sabana Llana (48, 96).

PENIOPHORA GALACHROA Bres.

On dead wood of Melia azedarach, Pueblo Viejo.

PENIOPHORA RAVENELII Cooke.

On dead wood, Río Piedras.

SEPTOBASIDIUM LILACINUM Burt.

On trunks of Citrus decumana, growing over lichens and debris, Bayamón, Espinosa (96).

SEPTOBASIDIUM PSEUDOPEDICELLATUM Burt.

On living branches, Mayagüez (Earle). Reported by Dr. Burt in Ann. Mo. Bot. Garden, vol. 3, no. 3, p. 329, fig. 1. (Thelephoraceæ of North America, VII.)

Septobasidium spongia (B. & C.) Pat.

Growing over scale insects (Lepidosaphes beckii, Chionaspis citri) and debris on twigs and branches of Citrus decumana, Río Piedras, Espinosa. Pueblo Viejo, Campo Alegre. Garrochales, Vega Baja, Bayamón (94, 96).

STEREUM ALBO-BADIUM Schw.

On dead citrus wood, Vega Baja, Espinosa (96).

STEREUM CAPERATUM Berk & Mont.

On dead wood of *Inga laurina* and other trees, Río Piedras.

Manatí.

STEREUM COFFEARUM B. & C.

On dead citrus twigs, Río Piedras (96).

STEREUM ELEGANS Meyer.

On dead wood, Mayagüez (López).

STEREUM FASCIATUM Schw.

On dead wood, Río Piedras, Bayamón, El Yunque, Comerío.

STEREUM LOBATUM Fr.

On dead wood, Río Piedras, San Patricio (Sintenis) (76).

STEREUM PAPYRINUM Mont.

On dead wood, Espinosa.

STEREUM STRUMOSUM Fr.

On dead wood, Bayamón.

STEREUM TUBERCULOSUM Fr.

On dead wood, Río Piedras.

STEREUM UMBRINUM B. & C.

On dead wood, Río Piedras.

THELEPHORA MULTIFIDA Klotzsch.

Reported from the Schwanecke collection (50).

THELEPHORA SERICELLA B. & C.

On soil, Río Piedras, Martín Peña, Espinosa.

TREMELLODENDRON SIMPLEX Burt.

On soil, in cane field. Described in Ann. Mo. Bot. Garden, vol. 2, no. 4, pp. 742-3, from collection by Johnston (48).

HYDNACEÆ.

HYDNUM MULTIFIDUM (Klotzsch) P. Henn.

Reported from the Sintenis collection (76), on dead wood, Adjuntas.

HYDNUM SACCHARI Spreng.

On dead cane trash, Río Piedras (48).

IRPEX DISCOLOR Berk.

On rotten wood, Río Piedras.

IRPEX FARINACEA Fries.

(Cerrenella farinacea [Fries.] Murrill.)

(Poria portoricensis Fries.)

Reported from Porto Rico (65).

IRPEX FLAVUS Klotsch.

Reported from the Sintenis collection (76).

IRPEX LACTEUS Fries.

(Irpiciporus lacteus [Fries] Murrill.)

On dead wood, Bayamón, Río Piedras, Pueblo Viejo (65, 82).

ODONTIA SACCHARI Burt.

On Saccharum officinarum, Río Piedras (13, 48, 105).

ODONTIA SACCHARICOLA Burt.

On Paspalum sp., Río Piedras.

Saccharum officinarum, Río Piedras, Canóvanas, Cambalache, Camuy (13, 48, 105).

Odontia Wrightii (B. & C.) Pat.

On dead wood, El Duque.

POLYPORACEÆ.

Dædalea repanda Pers.

(Dædalea amanitoides Beauv.)

On dead wood, El Yunque, Santurce, Río Piedras, Moca, Juncos, Mameyes, Vega Baja, Martín Peña, Espinosa; Mona (12); Monte Alegrillo, Cabo Rojo (Stevens) (82). Reported from the Sintenis collection (76) as Trametes elegans (Spr.) Fr.

FAVOLUS BRAZILIENSIS Fr.

(Hexagona Wilsonii Murrill.)

(Hexagona dædalea [Link] Murrill.)

On dead wood, El Duque, Aibonito, Mameyes; Monte Alegrillo (Stevens) (62, 82). Reported from the Sintenis collection (76) as Favolus hispidulus Berk.

FAVOLUS PORTORICENSIS (Murr.) Sace.

(Hexagona portoricensis Murrill.)

Reported and named from Porto Rico by Murrill (62, 65).

FAVOLUS PSEUDOPRINCEPS (Murr.) Sacc.

(Hexagona pseudoprinceps Murrill.)

On dead wood, Carmelita (Earle) (61, 62).

FOMES AUSTRALIS Fr.

(Fomes fasciatus Lev.)

(Elfvingia tornata [Pers.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, Martín Peña. El Duque; Monte Alegrillo (Stevens) (82). Reported as Ganoderma australe (Fr.) Pat. from the Sintenis collection (76).

Fomes badius Berk.

(Fulvifomes Underwoodii Murrill) (65).

(Pyropolyporus Underwoodii Murrill.)

On dead wood, Palo Seco (62).

Fomes calcitratus Berk & Curt.

(Fulvifomes calcitratus [Berk & Curt.] Murrill.)

(Pyropolyporus calcitratus [Berk. & Curt.] Murrill.)

On dead wood. Col. N. Y. Bot. Garden (62, 65).

Fomes dependens Murrill.

(Fulvifomes dependens Murrill.)
(Pyropolyporus dependens Murrill.)

On dead wood and sometimes as a cause of heart rot of hardwood trees, Vicques (Shafer); Mona Island (Britton) (12, 82, 102).

Fomes extensus Lev.

(Fulvifomes extensus [Lev.] Murrill.)
(Puropolyporus extensus [Lev.] Murrill.)

On dead wood, Pueblo Viejo.

Fomes igniarius (L.) Fr.

(Pyropolyporus igniarius [L.] Murrill.)

Reported from the Sintenis collection (76). Probably Fomes extensus.

FOMES LAMÆNSIS MUTTILL.

On dead wood, Martín Peña.

FOMES LIGNEUS (Berk.) Cooke.

Reported from the Sintenis collection (76).

FOMES LIGNOSUS Klotzsch.

(Fomes auberianùs [Mont.] Murrill.)

On dead wood, Mameyes, El Duque, Pueblo Viejo, Río Piedras; Mayagüez (López); Maricao (Stevens) (82).

FOMES LINTEUS Berk.

On dead wood, Río Piedras. Determined by Dr. Murrill as Fomes (Fulvifomes) extensus.

Fomes Marmoratus Berk.

(Elfvingia fasciata [Sw.] Murrill.)

(Elfvingiella fasciata [Sw.] Murrill.)

(Fomes fasciatus Schwartz.)

On dead wood, Naguabo, Moca, Bayamón, Aibonito, Río Piedras, Manatí, Fajardo, Mameyes, Comerío; Monte Alegrillo (Stevens) (82). Reported from the Sintenis collection (76) as Fomes fomentarius (L.) Fr.

LASCHIA PEZIZOIDES B. & C.

On dead wood, Río Piedras.

LENZITES STRIATA Fr.

(Glæophyllum striatum [Fr.] Murrill.)

On dead wood, Río Piedras, Humacao, Bayamón, Caguas, Camuy, Espinosa, Santana; Mona Island (12); Vieques (Shafer) (82, 102).

MERULIUS BYSSOIDEUS Burt.

On soil and cane trash, Río Piedras (48). Described by Dr. Burt in Ann. Mo. Bot. Garden, v. 4, no. 4, Nov. 1917, pp. 358-9, fig. 1. Collection by J. R. Johnston.

MERULIUS RUGULOSUS B. & C.

(Corticium saccharinum B. & C.)

On dead wood, Bayamón.

MERULIUS SULPHUREUS Burt.

On rotten wood and bark, Bayamón.

POLYPORUS AMBOINENSE Fr.

Reported as Ganoderma amboinense (Lam.) Pat. from the Sintenis collection (76). "The determination is in all probability wrong. Known only from the Philippines, although applied to many tropical plants, related to Polyporus lucidus."—Lloyd.

POLYPORUS ANEBUS Berk.

On dead wood, Mameyes.

POLYPORUS BLANCHETIANUS Mont.

Reported from the Sintenis collection (76). Given by Lloyd as practically a form of *P. varius*.

POLYPORUS CHAPERI Pat.

(Amauroderma Chaperi [Pat.] Murrill.)

On dead wood, Santa Isabel (65).

POLYPORUS CONCHOIDES Mont.

Reported as Glæoporus conchoides Mont. from the Sintenis collection (76).

POLYPORUS CONCRESCENS Mont.

(Rigidoporus evolutus [Berk. & Curt.] Murrill

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS DEALBATUS B. & C.

(Microporellus dealbatus [B. & C.] Murrill >

On dead wood, Porto Rico (Stevens) (82).

POLYPORUS DISTORTUS Schw.

(Abortiporus distortus [Schw] Murrill

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS FIMBRIATUS Fr.

Reported from the Sintenis collection (76) as P. Warmingii Berk.

POLYPORUS FLAVESCENS Mont.

(Tyromyces albogilvus [Berk. & Curt.] Murrill.)

On dead trunks. Coll. N. Y. Bot. Garden (65).

POLYPORUS FLAVIPORUM Murrill.

(Amauroderma flaviporum Murrill.)

On dead wood, Cortada.

POLYPORUS FRUCTICUM Berk.

(Inonotus corrosus Murrill.)

On dead wood, Mena Island (Britton); Vieques (Shafer) (12, 65, 82, 102).

POLYPORUS FULVELLUS Bres.

(Ganoderma nitidum Murrill.)

On dead wood, Garrochales, Río Piedras.

POLYPORUS GILVUS Schw.

(Hapalopilus gilvus [Schw.] Murrill.)

On dead wood, Puchlo Viejo, Moca, Aibonito, El Yunque, Vega Baja, El Duque, Río Piedras; Maricao (Stevens); Vieques (Shafer) (82, 102). Reported from Cayey in the Sintenis collection (76) as a variety, *scruposus*.

POLYPORUS GRACILIS KI.

(Polyporus obolus Ellis & Macbr.) (65).

(Polyporus Cowellii Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYPORUS HAVANNENSIS Berk. '

(Trametes havannensis [Berk.] Murrill.)

On dead wood, Porto Rico (Stevens) (82). Probably referable to Polyporus subfulvus Berk.

POLYPORUS HEMILEUCUS Berk & Curt.

Reported from the Sintenis collection (76). Referable to P. supinus, or possibly P. modestus.

Polyporus Leprieurii Mont.

Reported from the Sintenis collection (76).

POLYPORUS LICNOIDES Mont.

(Hapalopilus licnoides [Mont.] Murrill.)

On dead wood, Fajardo, Martín Peña. El Duque, Palo Seco, Comerío, Río Piedras; Maricao (Stevens) (82).

Polyporus Lucidus Leys.

Reported as Ganoderma lucidum (Leys.) Pat. from the Sintenis collection (76).

POLYPORUS MARBLEÆ Murrill.

On dead wood, Utuado. Coll. N. Y. Bot. Garden (65).

POLYPORUS MODESTUS Kze.

On dead wood, Fajardo (Schwanecke) (50).

POLYPORUS NIVOSELLUS Murrill.

(Tyromyces nivosellus Murrill.)

Reported from Porto Rico in North Amer. Flora (62, 65).

POLYPORUS OBTUSUS Berk.

(Spongipellis unicolor [Schw.] Murrill.)

Reported from Humacao in the Schwanecke collection (50) as *Polyporus unicolor* Schw.

POLYPORUS PAPYRACEUS Fries.

Reported in North American Flora. Probably Polysticius membranaceus (62).

POLYPORUS PERZONATUS Murrill.

(Ganoderma perzonatum Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS PUSILLUS Persoon.

(Favolus rhipidium Berk.)

(Favolus subpulverulentus Berk & Curt.).

(Inonotus pusillus [Pers.] Murrill.)

On dead and rotten wood. Pueblo Viejo, Martín Peña, Río Piedras, Comerío; Monte Alegrillo (Stevens) (82). Also reported from the Sintenis collection (76).

Polyporus rugulosus Lev.

Reported from Cayey in the Sintenis collection (76). "Very close to and practically the same plant as Polyporus zona-lis Berk."—Lloyd.

POLYPORUS SEMILACCATUS Berk.

On dead wood, Palo Seco.

POLYPORUS SUBFULVUS Berk.

(Coriolus ochrotinctellus Murrill.)

On dead wood, Espinesa, Bayamón, Guaynabo, Río Piedras (65, 82).

POLYPORUS SULPHUREUS (Bull.) Fr.

(Lætiporus speciosus [Batt.] Murrill.)

Reported from Lares in the Sintenis collection (76).

Polyporus supinus Swartz.

(Fomitella supina [Sw.] Murrill.)

On dead wood, Arecibo, Santana, Moca, El Duque.

POLYPORUS TRICHOLOMA Mont.

On dead wood, Martín Peña, Río Piedras, El Duque, Espinosa; Humacao (Schwanecke) (50).

POLYPORUS VARIIPORUS Murrill.

On dead sticks (62, 65).

POLYPORUS VINOSUS Berk.

(Nigroporus vinosus [Berk.] Murrill.)

On dead wood, Sierra de Naguabo.

POLYPORUS ZONALIS Berk.

(Rigidoporus surinamensis [Miq.] Murrill.)

On dead wood, Río Piedras, Espinosa, Guaynabo, Fajardo, Palo Seco: El Alto de la Bandera, Monte Alegrillo (Stevens) (82).

POLYSTICTUS ARMENICOLOR Berk & Curt.

(Coriolus armenicolor [Berk. & Curt.] Pat.)

On dead wood, Río Piedras (65).

POLYSTICTUS CROCATUS Fries. (?).

(Coriolopsis crocata [Fries.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

Polystictus Drummondii Klotzsch.

(Coriolus Drummondii [Klotzsch] Pat.)

On dead wood, Bayamón; Mayagüez (Stevens) (82).

POLYSTICTUS ELONGATUS Berk.

On dead wood, Río Piedras. Also reported from the Sintenis collection (76).

Polystictus fulvocinereus Murrill.)

· (Coriolopsis fulvocinerea Murrill.)

On dead wood, Martín Peña.

POLYSTICTUS HÆDINUS Berk.

(Coriolus hadinus [Berk.] Pat.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYSTICTUS HIRSUTUS Fr.

(Coriolus nigromarginatus [Schw.] Murrill.)

Reported from Barranquitas (Sintenis) (76).

POLYSTICTUS HIRTELLUS Fr.

(Coriolus nigromarginatus [Schw.] Murrill.)

On dead wood, Martín Peña, Río Piedras.

POLYSTICTUS HOLLICKII Murrill.

(Coriolus Hollickii Murrill.)

On dead wood, Monte Alegrillo (Stevens) (65, 82).

POLYSTICTUS MAXIMUS Mont.

(Coriolus maximus [Mont.] Murrill.)

On dead wood, Moca, Martín Peña, Manatí, Espinosa, Río Piedras; Vicques (Shafer); Cabo Rojo (Stevens) (82, 102).

POLYSTICTUS MEMBRANACEUS Sw.

(Coriolus membranaceus [Sw.] Pat.)

On dead wood, Bayamón, Martín Peña, Espinosa, Pueblo Viejo, El Yunque, Comerío; Monte Alegrillo (Stevens) (82). Reported from the Sintenis collection (76).

POLYSTICTUS OCCIDENTALIS Klotzsch.

(Coriolopsis occidentalis [Kl.] Murrill.)

On dead wood, Martín Peña, Fajardo, Palo Seco, Río Piedras, El Yunque, Vega Baja, Barceloneta, Bayamón, Guaynabo; Barceloneta (Sintenis, 76) (48, 82, 96).

POLYSTICTUS PAVONIUS Hook.

(Coriolus pavonius [Hook.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, El Yunque, Fajardo (82).

POLYSTICTUS PINSITUS Fries.

(Coriolus pinsitus [Fries] Murrill.)

On dead wood, Río Piedras, Martín Peña, Bayamón, Espinosa, Campo Alegre, Barceloneta, Garrochales, Mameyes, Vega Alta, El Yunque; Utuado, Monte Alegrillo, Vega Baja, (Stevens) (82, 96); Mona (12): Vieques (Shafer) (102). Reported from Utuado in the Sintenis collection (76) as P. umbonatus Fr.

POLYSTICTUS POLYZONUS Pers.

On dead wood, Río Piedras.

POLYSTICTUS RIGENS Sacc. & Cub.

(Coriolopsis rigida [Berk. & Mont.] Murrill.)

On dead wood, Sardinera (12, 82); Río Piedras, Martín Peña. Pueblo Viejo, El Duque, Campo Alegre, El Yunque, Santana, Arecibo, Bayamón.

POLYSTICTUS SANGUINEUS L.

(Pycnoporus sanguineus [L.] Murrill.)

On dead wood, Martín Peña, Río Piedras, El Yunque, Sierra de Naguabo, Espinosa, Palo Seco, Dorado; Añasco (Stevens) (82). Also reported from the Sintenis and Schwanecke collections (50, 76), Mona Island (12), and Vieques (102)

Polystictus sinuosus B. & C.

(Poria sinuosa Fr.)

On dead cane stalks and rotten wood, Río Piedras, Gurabo, Bayamén (48, 53). Both the pileate and resupinate forms occur.

POLYSTICTUS SPATHULATUS Hook.

(Polyporus multiformis Mont.)

(Coltricia spathulata [Hook.] Murrill.)

On dead wood, Martín Peña.

POLYSTICTUS STEREINUS B. & C.

(Rigidoporus Liebmanni [Fries.] Murrill.)

On rotten wood, El Yunque (62).

POLYSTICTUS SUBGLABRESCENS Murrill.

(Coriolopsis subglabrescens Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

Polystictus velutinus Fr.

Reported from Humacao in the Schwanecke collection (50).

POLYSTICTUS VERSICOLOR L.

(Coriolus versicolor [L.] Quel.)

On dead wood, Mayagüez (Stevens) (82).

PORIA AURANTIOTINGENS Ellis & Macbr.

(Tinctoporia aurantiotingens [Ell. & Maebr.] Murrill.)

On dead wood, Río Piedras, El Duque.

Poria vincta Berk.

On dead wood, Río Piedras.

TRAMETES CUBENSIS (Mont.) Sacc.

On dead wood, Espinosa, El Duque, Martín Peña,

TRAMETES HYDNOIDES SW.

(Pogonomyces hydnoides [Sw.] Murrill.)

On dead wood, Martin Peña, Moca. Espinosa, Caguas, Arecibo, Mona Island (12); Monte Alegrillo (Stevens) (82). Also reported from the Sintenis collection (76).

TRAMETES NIVOSA (Berk.) Murrill.

On dead cane stalks, Río Piedras (48).

TRAMETES SUBMURINA MURRILL.

On rotten wood, Espinosa, Palo Seco, Río Piedras, Santurce.

TRAMETES TAYLORI Murrill.

(Coriolopsis Taylori Murrill.)

On dead wood, Naguabo, Vega Baja (62, 65).

AGARICACEÆ.

AGARICUS JOHNSTONII Murrill.

On humus, Río Piedras (68).

Amphalia lapidescens (Hor.) Cohn & Schrot.

Reported from the Sintenis collection (76).

ATYLOSPORA BYSSINA Murrill.

On dead wood, Río Piedras (67).

CAMPANULARIS CAMPANULATUS (L.) Earle.

On manure, Río Piedras (Fink.) (67).

CAMPANULARIS SOLIDIPES (Peck) Murrill.

On horse manure, Río Piedras; Utuado (Britton and Cewell); Mayagüez, Aibonito (Fink) (67).

CORTINARIUS SINTENISII P. Henn.

Reported from the Sintenis collection (76).

GALERA TENER (Schaeff.) Quel.

On humus, Río Piedras.

GYMNOPILUS EARLII MUTTILL.

On dead wood, Mayagüez (Thomas and López).

GYMNOPUS TENUIPES (Schw.) Murrill.

On dead wood, reported in N. Amer. Flora (66).

HELIOMYCES SUBAVELLANEUS Murrill.

On dead wood, Río Piedras (Shafer) (64).

LENTINULA DETONSA (Fries) Murrill.

On dead wood. Coll. N. Y. Bot. Garden (63).

LENTINUS CRINITUS (L.) Fries.

On dead wood and cane stalks, Río Piedras, Pueblo Viejo, Moca, Campo Alegre, Martín Peña, El Duque; Cayey (Stevens) (48, 82). Also reported from Mona Island (12), and from the Sintenis collection (76). Recorded in the Schwanecke collection as Lentinus nigripes Fr. (50).

LENTINUS HIRTUS (Fries) Murrill.

On dead wood, Río Piedras, Espinosa, Pueblo Viejo, Caguas, El Yunque, Gurabo, El Duque, Mameyes (63, 82).

LENTINUS LEPIDEUS Fries.

(Lentodium squamosum [Huds.] Murrill.)

On rotten wood, Río Piedras (63, 82).

LENTINUS SCYPHOIDES Pat.

On dead wood, Río Piedras.

LENTINUS STRIGELLUS Berk & Curt.

On dead wood. Col. N. Y. Bot. Garden (63).

LENTINUS STRIGOSUS (Schw.) Fries.

On dead wood, Moca, Río Piedras, Santana; Cabo Rojo (Stevens); Vieques (82, 102). Also from the Sintenis collection (76) as L. Lecomtei Fr.

LENTINUS SUBSCYPHOIDES Murrill.

On dead wood, Río Piedras (64).

LENTINUS VELUTINUS Fries.

On dead wood, Santana.

LEPIOTA CEPÆSTIPES (Sow.) Quel.

On humus, Martín Peña, Río Piedras.

LEPIOTA CRETACEA (Bul.) Murrill.

On soil in cane fields, Río Piedras.

LEPIOTA MORGANI Peck.

(Chlorophyllum molybdites Mass.)

On humus, Bayamón, Río Piedras.

LEPIOTA RUBROTINCTA Pk. (?).

Reported by Stevens (82).

MARASMIUS BERTEROI (Lev.) Murrill.

On trunks of trees (64),

MARASMIUS BORINQUENSIS Stevenson.

On dead sugar-cane stalks, Río Piedras (48).

MARASMIUS CINEREIALBUS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS HIORAMI Murrill.

On dead and dying sugar-cane leaves and roots, Ru Piedras (48, 64).

MARASMIUS JOHNSTONU Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS OBSOLETUS Murrill.

On dead wood, Río Piedras (64).

MARASMIUS PALLESCENS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PAUCIFOLIUS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PECKII Murrill.

On dead leaves (64).

MARASMIUS PORTORICENSIS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS SACCHARI Wakker.

On Andropogon bicornis, Río Piedras.

Bromelia pinguin, Río Piedras.

Panicum barbinode, Cambalache, Patillas.

Saccharum officinarum, Ponee, Fortuna, Río Piedras, Canóvanas, Mameyes (22, 23, 38, 40, 41, 48, 59, 91, 94, 105).

Marasmius synodicus (Kunze) Fries

On dead leaves and grass, Río Piedras (64).

MARASMIUS WILSONII Murrill.

On dead leaves, Luquillo (Wilson) (64).

Melanotus fumosifolius Murrill.

On rotten wood, Utuado (Britton and Marble) (67).

Omphalopsis Euspeirea (Berk. & Curt.) Murrill.

On dead wood (66).

PANELLUS EUGRAMINUS (Mont.) Murrill.

On dead wood, El Duque, Río Piedras.

PLICATURA OBLIQUA (B. & C.) Murrill.

On dead wood, Bayamón, Río Piedras, El Yunque, Martín Peña.

POLYMARASMIUS SARMENTOSUS (Berk.) Murrill.

On dead wood (64).

PSATHYRELLA MINUTULA (Schaeff.) Murrill.

(Psathyrella disseminata Quel.)

On humus, El Yunque, Río Piedras.

PSATHYREILA STEVENSONII Murrill.

On garden soil, Río Piedras (67).

SCHIZOPHYLLUM COMMUNE Fr.

(Schizophyllum alneum [L.] Schroet.)

(Schizophyllus alneus [L.] Schröet.)

On Citrus decomana, Río Piedras. Fruit rot, and wood rot of trunk and limbs (89, 96).

Ipomæa batatas, Río Piedras.

Saccharum officinarum (dead and dying stalks), Río Piedras, Plazuela (20, 38, 48, 105).
Common everywhere on dead wood, Yabucoa, Carolina, Bayamón; Maricao, Cataño, El Gigante (Stevens) (82); Mona Island (12); Vieques (102); Adjuntas (Sintenis) (50, 76); Santurce Heller) (19).

SOYTINOTUS DISTANTIFOLIUS Murrill.

On dead wood, grass and sugar-cane leaves, Río Piedras (48, 64).

STROPHARIA CUBENSIS Earle.

On manure, various localities (Britton and Marble) (Fink) (68)

PHALLACEÆ.

CLATHRUS CANCELLATUS Tournef.

Porto Rico (Sintenis) (76). Probably should be referred to the following species.

CLATHRUS CRISPUS Turpin.

On garden soil, Santurce.

LATERNEA COLUMNATA Nees.

Sintenis, from Porto Rico. Reported (76) as Clathrus columnatus.

LATERNEA TRISCAPA Turpin.

On garden soil, Río Piedras.

MUTINUS CANINUS (Huds.) Fr.

Reported by Johnston at Río Piedras.

PHALLUS INDUSIATUS Vent.

On soil, Mayagüez (Brandes); Río Piedras, Martín Peña; Adjuntas (Sintenis) (76) as Dictyophora phalloidea.

LYCOPERDACEÆ.

GEASTER MIRABILIS Mont.

On forest soil, Martín Peña; Adjuntas (Sintenis) (76).

GEASTER SACCATUS Fr.

On humus, Río Piedras.

GEASTER VELUTINUS Morgan.

On humus, Río Piedras.

LYCOPERDON ALBIDUM Cooke.

On dead cane stalks and debris, Cortada, Río Piedras (48, 52).

LYCOPERDON CRUCIATUM Rostk.

On soil and rotten wood, Río Piedras, Palo Seco.

Lycoperdon Pusillum Batsch.

On humus and cane trash, Pueblo Viejo, Río Piedras (48).

LYCOPERDON PYRIFORME Schaeff.

(Lycoperdon rubellum Beck.)

On soil, Río Piedras, Barceloneta (48).

TYLOSTOMA EXASPERATUM Mont.

On dead wood, Lares (Sintenis) (76).

NIDULARIACEÆ.

CYATHUS EARLEI Lloyd.

On dead wood, Sabana Llana, Palo Seco.

CYATHUS PALLIDUS Berk.

On dead wood, Martín Peña, Río Piedras.

CYATHUS PEPPIGII Tulasne.

On dead cane stalks and dead wood, Río Piedras, Fajardo (48).

CYATHUS STERCOREUS Schw.

On manure. Río Piedras.

CYATHUS STRIATUS Hudson.

(Nidularia striata Bull.)

Reported from the Schwanceke collection (50), but would doubtless be found to be *C. pæppigü* if reexamined.

SPHÆROBOLUS STELLATUS Tode.

On cane trash and rotten wood, Río Piedras (48).

FUNGI IMPERFECTI.

РНОМАТАСЕЖ.

ACTINONEMA ROSÆ (Lib.) Fr.

On leaves of Rosa sp., Río Piedras (94).

ASCOCHYTA NICOTIANÆ Pass.

On Nicotiana tabacum (8).

CINCINNOBOLUS CESATII De By.

On Erysiphe polygoni (?) on Cassia lora, San Germán (Stevens) (82).

CRYPTOSTICTIS HYSTERIOIDES Fuckel.

On dead leaves, Río Piedras.

CYTOSPORA SACCHARI Butler.

On dead and dying sugar-cane leaf-sheaths and stalks, Río Piedras, Carolina, Fajardo (48, 84, 105).

DARLUCA FILUM (Biv.) Cast.

On Kuchneola gossypii on Gossypium barbadense (Stevens).

Puccinia cannæ on Canna sp. (Stevens).

Puccinia eleocharidis on Eleocharis sp., Mayagüez (Stevens).

Puccinia gouanix on Gouania, Utuado (Stevens).

Puccinia Huberi on Panicum trichoides, Jayuya (Stevens).

Puccinia lantanæ on Lantana involucrata, Quebradillas.

Puccinia polygoni-amphibii on Persicaria punctata, Río Piedras.

DARLUCA FILUM (Biv.) Cast.—Continued.

On Puccinia rivina on Rivina humilis, Desecheo (Stevens).

Puccinia substriata on Eriochloa subglabra, Mayagüez (Stevens).

Uredo aschynomenis on Aeschynomene americana (Stevens). Uromyces leptodermus, on Lasiacis divaricata and Panicum barbinode (Stevens) (82).

Rust (undet.) on Kyllingia sp. (Sintenis) (76).

DIPLODIA CACAOICOLA P. Henn.

On Saccharum officinarum, Río Piedras, Vieques, Las Monjas, (48, 94, 105).

Theobroma cacao, Mayagüez (20).

DIPLODIA NATALENSIS Evans.

On Citrus spp., as a fruit rot, twig blight, and trunk canker, Río Piedras, Garrochales, Palo Seco, Pueblo Viejo, Espinosa, Bayamón, Campo Alegre (29, 58, 84, 89, 94, 96).

DIPLODIA OPUNTIÆ Sacc.

On Opuntia sp., Guánica (84).

DIPLODIA TUBERICOLA (E. & E.) Taub.

On Ipomæa batatas, Río Piedras.

PHOMA DESTRUCTIVA Plowr.

On Lycopersicum esculentum, Río Piedras (90, 94).

PHOMA FOURCROYÆ Thüm.

On Furcrea tuberosa, Espinosa, Bayamón.

PHOMOPSIS CITRI Faw.

On Citrus decumana, Trujillo Alto, Bayamón, Palo Seco (89, 96). Citrus sinensis, Bayamón (89, 96).

PHOMOPSIS VEXANS (Sacc. & Syd.) Harter.

On Solanum melongena, Río Piedras (90, 94).

PHYLLOSTICTA ADIANTICOLA Young.

On Adiantum tenerum, Río Piedras, Camuy; Manatí, Utuado, Quebradillas (Stevens) (103).

PHYLLOSTICTA APII Hals.

On Apium graveolens, Río Piedras.

PHYLLOSTICTA ARALIANA Young.

On Dendropanax arboreum, Maricao (Stevens) (103).

PHYLLOSTICTA BATATAS E. & M.

On Ipomæa batatas, Río Piedras (90).

PHYLLOSTICTA BIXINA Young.

On Bixa orellana, Bayamón, Espinosa, Río Piedras; Maricao, San Germán, Rosario, Mayagüez, Coamo, Añasco, Adjuntas (Stevens) (103).

PHYLLOSTICTA BORINQUENSIS Young.

On Helicteres jamaicensis, Palo Seco, Martín Peña; San Germán (Stevens) (103).

PHYLLOSTICTA CISSICOLA Speg.

On Cissus sicyoides, Río Piedras; Vega Baja, Jájome Alto (Stevens) (103).

PHYLLOSTICTA CITRULLINA Chester.

On Cucurbita melo, Río Piedras (90).

PHYLLOSTICTA CLUSIÆ Stevens.

On Clusia rosea, Maricao (Stevens) (82).

PHYLLOSTICTA COCCOLOBÆ E. & E.

On Coccoloba uvifera, Mona Island (Stevens) (103).

PHYLLOSTICTA COLOCASIÆ Höhnel.

On Dieffenbachia seguine, Monte de Oro (Stevens) (90, 103).

PHYLLOSTICTA COLOCASICOLA Höhnel.

On Colocasia sp., Caguas (Stevens) (103).

PHYLLOSTICTA COMMELINICOLA Young.

On Commelina nudiflora, Río Piedras, Trujillo Alto; Hormi gueros (Stevens) (103).

PHYLLOSTICTA CUCURBITACEARUM Sacc.

On Cucumis sativus, Río Piedras (90).

PHYLLOSTICTA DIVERGENS Sacc.

On Albizzia lebbeck, Porto Rico (Stevens) (103).

PHYLLOSTICTA ERYTHRINICOLA Young.

On Erythrina micropteryx, Aibonito; Villa Alba, Jájome Alto, Yauco, Mayagüez (Stevens) (103).

PHYLLOSTICTA EUGENIÆ Young.

On Eugenia buxifolia, Mona Island (Stevens) (103).

PHYLLOSTICTA EUPATORICOLA Rab. & Bub.

On Eupatorium odoratum, Río Piedras, Sierra de Naguabo; Villa Alba (Stevens) (103).

PHYLLOSTICTA GLAUCISPORA Delacr.

On Urechites lutea, Porto Rico (Stevens) (103).

PHYLLOSTICTA GUANICENSIS Young.

On Guilandina crista, Guánica (Stevens) (103).

PHYLLOSTICTA GUAREÆ P. Henn.

On Guarea irichilioides, Aguas Buenas (Stevens) (103).

PHYLLOSTICTA HORTORUM Speg.

See Phomopsis vexans.

PHYLLOSTICTA HYBISCINA E. & E.

On Abutilon umbellatum, Mona Island (Stevens) (82).

PHYLLOSTICTA IPOMή Ell. & Keller.

On Exogonium repandum, Manatí, Mayagüez, Río Piedras, Dos Bocas (Stevens) (103).

PHYLLOSTICTA LANTANÆ Stevens.

On Lantana odorata, Desecheo, Mona, Utuado, Guánica (Stevens) (82).

PHYLLOSTICTA MOMISIANA Young.

On Momisia iguanaca, Coamo (Stevens) (103).

PHYLLOSTICTA MACULICOLA Hals.

On Cordyline terminalis, Río Piedras, Sabana Llana.

PHYLLOSTICTA PANDANICOLA Young.

On Pandanus sp., Santurce (Stevens) (103).

PHYLLOSTICTA PANICI Young.

On Panicum maximum, Río Piedras; Coamo, Martín Peña (Stevens) (103).

PHYLLOSTICTA PITHECOLOBII Young.

On Pithecolobium unguis-cati, Desecheo, Yauco (Stevens) (103).

PHYLLOSTICTA PITHECOLOBII var. MONENSIS Young.

On Pithecolobium unguis-cati, Mcna Island (Stevens) (103).

PHYLLOSTICTA PORTORICENSIS Young.

On Croton lucidus, Guánica (Stevens) (103).

PHYLLOSTICTA SACCHARI Speg.

On Saccharum officinarum, Gurabo, Río Piedras; Juana Díaz (Stevens) (48, 103).

PHYLLOSTICTA SECHII Young.

On Sechium edule, Río Piedras; Mayagüez (Stevens) (103).

PHYLLOSTICTA STEVENSII Young.

On Triumfetta semitriloba, Coamo, Villa Alba (Stevens) (103).

PHYLLOSTICTA SUPERFICIALE Stevens.

On passiflora sexflora, Ponce, Monte de Oro, El Consumo, Adjuntas, Utuado, El Yunque, Jájome Alto, Maricao, Guayama (Stevens) (82).

SEPTORIA ASIATICA Urb.

On Centella asiatica, Vega Baja, San Sebastián (Stevens) (34). Septoria chelidonii Desm.

On Argemone mexicana, Guayama (Stevens) (34).

SEPTORIA FICI-INDICÆ Vogt.

On Opuntia dillenii, Guánica, Santa Isabel (Stevens) (82).

SEPTORIA GUETTARDÆ Garman.

On Guettarda ovalifolia, Monte Alegrillo (Stevens) (34).

SEPTORIA LANTANÆ Garman.

On Lantana camara, Porto Rico (Stevens) (34).

SEPHORIA LYCOPERSICI Speg.

On Lycopersicum esculentum, Río Piedras, Sabana Llana (90, 94).

SEPTORIA MICONIÆ Garman.

On Miconia lævigata, Las Marías (Stevens) (34).

Miconia impetiolaris, Río Piedras, Sabana Llana (90, 94).

SEPTORIA MIKANIÆ Wint.

On Mikania sp., El Gigante (Stevens) (82).

SEPTORIA PETITIÆ Garman.

On Petitia domingensis, Río Piedras; Cabo Rojo (Stevens) (34). Septoria petroselini var. Apii Br. & Cav.

On Apium graveolens, Maricao, El Gigante, Aibonito (Stevens) (82).

SEPTORIA PITYROGRAMME Garman.

On Pityrogramma calomelanos, Maricao (Stevens) (34).

SEPTORIA ROSÆ Desm.

On Rosa sp., Aibonito.

VERMICULARIA ATRICHA E. & E.

On Petiveria alliacea, Caguas (Millspaugh). Described in Plantae Utowane, pub. 43, Field Columbian Museum, Bot. Ser., vol. 2, no. 1.

VERMICULARIA GRAMINICOLA West.

On dead cane stalk, Río Piedras (48).

ZYTHIACEÆ.

ASCHERSONIA ALEYRODIS Webber.

On Aleyrodicus minimus, the white fly of Psidium guajava, Río Piedras. Caguas, Bayamón, Espinosa; Utuado, Mayagüez, Jayuya (Stevens) (46, 82).

ASCHERSONIA FLAVO-CITRINA P. Henn.

On Aleyrodicus minimus, Río Piedras, Martín Peña (46).

ASCHERSONIA CUBENSIS B. & C.

On scale insects on Citrus spp., Pueblo Viejo, Espinosa, Bayamón; on Palicourea crocea, Río Piedras; on Zamia integrifolia (Stevens) (82, 89, 96).

ASHERSONIA TURBINATA Beck.

On scale insects, Río Piedras, Vega Baja, Espinosa, Dorado, Pueblo Viejo, Coamo Springs. Host insects occur on a wide range of trees and shrubs, including Citrus spp., Psidium, Casearia, Zamia, Eugenia, Erythrina, etc. (46, 89, 96).

ZYTHIA PHASEOLI Stevens. In mss.

On Phaseolus adenanthus, Porto Rico (Stevens).

LEPTOSTROMATACEÆ.

LEPTOTHYRIUM POMI (M. & F.) Sacc.

On Citrus sinensis, Bayamén. Found in sterile condition only (89, 96).

Melasmia coccolobiæ Stevens.

On Coccolobis sp., Maricao (Stevens) (82).

MELASMIA INGÆ Stevens.

On Inga laurina, Las Marías (Stevens) (82).

EXCIPULACEÆ.

EPHELIS MEXICANA Fr.

See Balansia hypoxylon.

MELANCONIACEÆ.

COLLETOTRICHUM COFFEANUM Noack.

On Coffee arabica. Reported by Cook in Tropical Plant Diseases, p. 166 (98).

COLLETOTRICHUM CRADWICKII Bancroft.

On Theobroma cacao, Mayagüez (Fawcett) (27).

Colletotrichum curvisetum Stevens.

On Hura crepitans, Canóvanas: Aŭesco, Mayagüez (Stevens) (82),

COLLETOTRICHUM ERYTHRINÆ E. & E.

On Pithecolobium unguis-cati, Coano, Boquerón, Guánica, Guanajibo, Mona, Desecheo (Stevens) (82).

COLLETOTRICHUM FALCATUM Went.

On Saccharum officinarum, Río Piedras, Fajardo, Yaneo, Canóvanas, Yabucoa, Carolina, Las Monjas, Ponce, Fortuna. For the most part on dead and dying leaves and stalks, but occasionally as a wound parasite of the stalk. (38, 40, 48, 91, 94, 105).

Colletotrichum glæosporioides Penz.

On Citrus spp., Río Piedras, Pueblo Viejo, Espinosa, Manatí, Bayamón, Sabana Llana, Vega Baja, Santana. Causing leaf spot, fruit spot and rot, tear staining of fruit, and withertip of terminal branches and twigs (15, 23, 26, 89, 94, 96, 98).

Mangifera indica, Río Piedras (23, 89, 94).

COLLETOTRICHUM HIGGINSCANUM Sacc.

On Brassica rapæ, Río Piedras.

Colletotrichum lagenarium (Pers.) · E. & H.

On Cucumis sativus, Río Piedras. Cucurbita melo, Río Piedras (90).

COLLETOTRICHUM LINDEMUTHIANUM (Sacc & Magn.) Scrib.

On Phaseolus vulgaris, Río Piedras (90, 94).

COLLETOTRICHUM LINEOLA Cda.

On Holcus halepense, Sabana Llana. Holcus sorghum, Trujillo Alto (94).

Colletotrichum lobeliæ Stevens.

On Lobelia assurgeus var. Portoricensis, Maricao (Stevens) (82).

COLLETOTRICHUM NIGRUM E. & H.

On Capsicum annuum, Río Piedras. Causing a rot of the fruit (90).

COLLETOTRICHUM OMNIVORUM Hals.

On Pandanus sp., Sabana Llana, Río Piedras; Caguas (Stevens) (82).

COLLETOTRICHUM PHILODENDRI P. Henn.

On Philodendron krebsii, Arecibo, Lares (Stevens) (82).

COLLETOTRICHUM PHOMOIDES (Sacc.) Ches.

On Lycopersicum esculentum, Río Piedras (90, 94).

Colletotrichum piperis Stevens.

On Piper umbellatum, Río Piedras; Caguas (Stevens) (82).

GLEOSPORIUM HEMEROCALLIDIS E. & E.

On Hymenocallis expansa, Bayamón.

GLEOSPORIUM MANIHOT Earle.

On Manihot utilissima, Río Piedras.

Producing a die-back of terminal twigs (90).

GLEOSPORIUM MELONGENÆ E. & H.

On Solanum melongena, Río Piedras (36, 90).

GLEOSPORIUM MUSARUM Cke. & Mass.

On Musa paradisiaca, Río Piedras. Common in all parts of the Island.

GLEOSPORIUM PIPERATUM E. & E.

On Capsicum annuum, Río Piedras (90, 94). Capsicum frutescens, Pueblo Viejo.

GLŒOSPORIUM PSIDII G. Del.

See Glomerella cingulata.

GLŒOSPORIUM RUFOMACULANS (Berk.) Thüm, See Glomerella cingulata.

GLŒOSPORIUM VANILLÆ Cke.

See Glomerella cinqulata.

GLEOSPORIUM VIOLÆ B. & Br.

On Viola sp., Mayagüez (Stevens) (82).

MELANCONIUM SACCHARI Mass.

On dead and dying sugar-cane stalks and leaf sheaths. Yabu-coa, Río Piedras, Fortuna, Aguadilla, Fajardo, Canóvanas, Carolina, Juncos, Arecibo, Barceloneta, Caguas, Quebradillas. Utuado, Isabela, Añasco, Guánica, Vega Baja, Bayamón, Toa Baja (15, 22, 23, 38, 40, 41, 44, 47, 48, 91, 94, 105).

MELANCONIUM SACCHARINUM (?) Penz. & Sacc.

On Bambusa vulgaris, Trujillo Alto.

Cymbopogon citratus, Río Piedras.

Saccharum officinarum, Río Piedras, Mercedita, Fajardo (41, 44, 48, 105).

Pestalozzia coccolobæ E. & E..

On Coccolobis uvifera, Boquerón (Stevens) (82).

PESTALOZZIA FUNERA Desm.

On Acrista monticola, El Yunque (Stevens).

Chrysobalanus icaco, Santurce (Stevens).

Clusia rosea, Maricao (Stevens).

Hippocratea volubilis, Río Piedras.

Inga vera, Maricao (Stevens).

Musa paradisiaca, Rosario, Barros (Stevens).

Pithecolobium unguis-cati, Mona (Stevens).

Poinciana pulcherrima, Río Piedras; Mayagüez (Stevens) (82).

Pestalozzia guepinia Desm.

On Citrus spp., Espinosa, Río Piedras (96).

Jambosa jambos, Pueblo Viejo.

Mangifera indica, Trujillo Alto, Río Piedras (94).

PESTALOZZIA PALMARUM Cke.

On Acrocomia media, Río Piedras, Espinosa.

Areca catechu, Río Piedras.

Cocos nucifera, Río Piedras, Santurce (39).

Phænix reclinata, Aibonito (94).

MONILIACEÆ.

ACROSTALAGMUS ALBUS Pr.

On Aphis sp., on Hibiscus esculentus, Cucumis sativus, Solanum melongena, Capsicum annuum, Palicourea sp., Eupatorium odoratum, Río Piedras, Carolina, Comerío.

Corythaica monacha, on Solanum melongena, Río Piedras. Sipha flava, on Saccharum officinarum, Río Piedras (46, 89).

ARTHROBOTRYS SUPERBA Cda.

On dead and dying sugar-cane leaves and on cane debris, Río Piedras, Gurabo (48).

ASPERGILLUS FLAVUS Link.

On Pseudococcus sacchari, Río Piedras, Patillas, Fajardo, Carolina, Guánica. A strain morphologically not distinguishable is common as a mold of tobacco, cloth, culture media, and other dead plant material. Also isolated from soil (46, 48, 96).

ASPERGILLUS NIGER Van Tiegh.

Isolated from soil. Also occurs occasionally as a citrus fruit rot, and on plant material in damp chambers (48, 96).

ASPERGILLUS ROSEUS Link.

Isolated from soil, Río Piedras.

ASPERGILLUS TERREUS Thom.

On musty tobacco, Porto Rico. Described by Thom in Amer. Jour. of Bot., v. 5, no. 2, Feb. 1918, pp. 85-90, including mention of its occurrence in Porto Rico.

BLASTOTRICHUM MICONIÆ Stevens.

On Miconia lavigata, Maricao, Utuado, Aguas Buenas (Stevens) (82).

BOTRYTIS RILEYI Farl.

On Laphygma frugiperda, Río Piedras, Guánica (46).

CEPHALOSPORIUM LECANII Zimm.

On Aspidiotus destructor, on Cocos nucifera, Punta Cangrejos. Coccus mangifera, on Mangifera indica, Río Piedras.

Pseudococcus nipæ, on Psidium guayaba, and Erythrina glauca, Río Piedras.

CEPHALOSPORIUM LECANII Zimm.—Continued.

On Saissetia hemispherica on a wide range of trees and shrubs, Río Piedras, Espinosa, Bayamón, Vega Baja, Comerío, Sabana Llana (46, 96).

DIPLOSPORIUM ALBUM Bon. var. fungicolum Stevens.

On Parodiella cayaponiæ on Cayaponia sp., Utuado (Stevens) (82).

METARRHIZIUM ANISOPLIÆ (Metsch.) Sor.

On Aphodius sp., Canthon sp., Dsycinetus barbatus, Ligyrus tumulosus, Metamasius hemipterus, Phyllophaga spp., Phytalus insularis, Strategus titanus, and a number of undetermined Scarabæids, an earwig, and a roach, Río Piedras, Guánica, Fajardo, Santa Isabel, Sierra de Naguabo, Añasco (46, 78, 84, 105).

Monilia sitophila (Mont.) Sacc.

On dead sugar-cane debris after burning, Río Piedras. Common in all parts of the Island. Also observed at base of plants of *Gynerium sagitatum* and *Sabal causiarum* injured by fire (48).

Monogrammia miconiæ Stevens.

On Miconia sp., Yabucoa (Stevens) (82).

Monosporium uredinicolum Stevens.

On Colcosporium ipomæa on Ipomæa batatas (Stevens) (82).

OIDIUM LACTIS Fres.

Causing acetic fermentation of fruit juices, Río Piedras.

Pellicularia koleroga Cooke.

On Coffea arabica, Moca, Mayagücz. Also reported by Fawcett on C. arabica var. columnaris, C. abeokuta, C. laurentii, C. stenophylla. This species is treated extensively in a number of publications (15, 23, 24, 28, 30, 31, 81, 82).

PENICILLIUM CRUSTACEUM L.

On dead plant material, Río Piedras (96).

PENICILLIUM DIGITATUM (Fr.) Sacc.

On fruit of Citrus sinensis, C. decumana, and C. limonis. Common in all citrus districts of the Island (58, 84, 89, 94, 96).

PENICILLIUM DIVARICATUM Thom.

Isolated from soil, Río Piedras

PENICILLIUM ITALICUM Wehmer.

On fruit of Citrus spp. Not common (89, 96).

¹ See Corticium koleroga

PENICULIUM LILACINUM Thom.

Isolated from soil, Río Piedras.

PENICILIUM LUTEUM Zukal.

Isolated from soil, Río Piedras.

PIRICULARIA GRISEA (Cke.) Sacc.

[Piricularia oryzæ Cav.]

On Oryza sativa, Mayagüez (Thomas). Syntherisma digitata, Río Piedras.

RAMULARIA ARBOLA Atkin.

On Gossypium barbadense (20).

RAMULARIA COLEOSPORIÆ Sacc.

On Coleosporium ipomææ on Ipomæa batatas (6).

RAMULARIA CYLINDROSPORIOIDES Stevens. In mss.

On Piper medium, Porto Rico (Stevens).

SPICARIA COLORANS.

On Theobroma cacao, Fawcett (30).

SPOROTRICHUM GLOBULIFERUM Speg.

On insects (thrips, Drosophilid, leaf hoppers), Río Piedras, Bayamón, Espinosa (94).

TRICHODERMA LIGNORUM (Tode) Harz.

On dead and dying sugar-cane leaves, leaf-sheaths, and stalks, Río Piedras, Cambalache, Naguabo. Common everywhere (48, 94).

TRICHOTHECIUM FUSARIOIDES Stevens.

On Phyllachora peribebuyensis on Miconia sp., Maricao (Stevens) (82).

VERTICILLIUM HETEROCLADUM Penz.

On insects (undet.), on Ocotea leucoxylon and Nectandra sp., Río Piedras (46).

DEMATIACEÆ.

ALTERNARIA DIANTHI S. & H.

On Dianthus sp., San Juan (94).

ALTERNARIA CITRI Pierce.

On Citrus sinensis (fruit), Pueblo Viejo, Bayamón, Río Piedras (84, 89, 96).

ALTERNARIA SOLANI (E. & M.) J. & G.

On *Datura suaveolens*, Barros, Coamo, Aguas Buenas (Stevens) (82).

Solanum tuberosum, Río Piedras.

ARTHRINIUM SACCHARICOLA Stevenson.

On dead sugar-cane leaves, Río Piedras (48).

Basisporium gallarum Moll.

On dead stalks and leaves of sugar-cane and other grasses, Juncos, Río Piedras (48).

Brachysporium stemphyliodes (Cd.) Sacc.

On Anona montana, Mayagüez (Stevens) (82).

CERCOSPORA ACHYRANTHES Syd.

On Achyranthes aspera, Guánica, Hormigueros, Bayamón (Stevens) (82).

CERCOSPORA ACROCOMIÆ Stevenson.

On Acrocomia media, Río Piedras, Espinosa (94).

CERCOSPORA ALTERNANTHERÆ E. & L.

On Alternanthera portoricensis, Yauco, Coamo (Stevens) (82).

CERCOSPORA AMARYLLIDIS Ell. & Ev.

On Hymenocollis expansa, Punta Cangrejos; Santurce, Caomo (Stevens) (104).

CERCOSPORA ATRICINCTA H. & W.

On Crassina elegans, Espinosa, Río Piedras (89).

CERCOSPORA BERNARDIÆ Stevens.

On Bernardia bernardia, Guánica (Stevens) (82).

CERCOSPORA BETICOLA Sacc.

On Beta vulgaris in var., Pueblo Viejo, Río Piedras (90, 94).

CERCOSPORA BIFORMIS Petch.

On Passiflora sexflora, Mayagüez (Stevens) (82).

CERCOSPORA BIXÆ A. & N.

On Bixa orellana, Mayagüez, Lares, Rosario (Stevens) (82).

CERCOSPORA BLOXAMI Beck. & Br.

On Brassica arvensis, Río Piedras.

Brassica integrifolia, Río Piedras.

Brassica japonica, Barranquitas. Brassica juncea, Río Piedras (94).

Brassica Pe-tsai, Río Piedras.

Brassica rapa, Quebradillas, Bayamón (Stevens) (90, 104)

CERCOSPORA BORINQUENSIS Young.

On Calapogonium orthocarpum, Río Piedras, Mayagüez (Stevens) (104).

CERCOSPORA BRADBURYÆ Young.

On Bradburya pubescens, Río Piedras; Mayagüez, El Yunque, Dos Bocas, San Germán, Guayama, Jayuya, Hormigueros, Cabo Rojo, Rosario (Stevens) (104). CERCOSPORA CAJANI P. Henn.

On Cajanus indicus, Río Piedras; Aguas Buenas, Aguada, Maricao, Añasco, Dos Bocas, Guayanilla, El Yunque, Hormigueros, Monte de Oro (Stevens) (90, 104).

CERCOSPORA CANESCENS Ell. & Mart.

On Dolichos lablab, Río Piedras.

Phaseolus lunatus, Río Piedras.

Phaseolus vulgaris, Río Piedras; Guayanilla (Stevens) (60, 90).

Vigna unquiculata, Garrochales.

CERCOSPORA CAPSICI H. & W.

On Capsicum annuum, Río Piedras, Pueblo Viejo, Trujillo Alto (90, 94).

CERCOSPORA CARBONACEA Miles.

On *Dioscorea alata*, Vega Alta, Cabo Rojo, Vega Baja, Añasco (Stevens) (60, 61).

CERCOSPORA CASEARIÆ Stevens.

On Casearia guianensis, Río Piedras; Rosario, Corozal, Mayagüez (Stevens).

Cascaria ramiflora, Villa Alba, Caguas, El Yunque, Quebradillas, Utuado, San Germán, Cataño, Martín Peña, Mayagüez, Aguada, Aguadilla, Maricao, Vega Baja, Bayamón, Naguabo, Jayuya (Stevens).

Cascaria sylvestris, Río Piedras, Martín Peña, Sabana Llana; Mayagüez, Coamo, Río Tanamá, Hormigueros, Lajas, Corozal, Quebradillas, Ponce, Monte de Oro, El Yunque (Stevens) (82).

CERCOSPORA CASSAVÆ E. & E.

On Manihot utilissima, Dos Bocas (Stevens) (104). Probably the same as C. Henningsii.

CERCOSPORA CHAMÆCRISTÆ E. & Keller.

On Cassia alata, Dos Bocas, Santurce, Añasco, Mayagüez (Stevens) (104).

Cassia occidentalis, Camuy, Espinosa.

CERCOSPORA CITRULLINA Cke.

On Citrullus vulgaris, Punta Cangrejos, Río Piedras, Pueblo Viejo (36, 84, 90).

CERCOSPORA COFFEICOLA B. & C.

(C. coffee Zimm.)

On Coffea arabica, Espinosa, Río Piedras; Añasco, Maricao (Stevens) (27, 31, 60).

CERCOSPORA CONSPICUA Earle.

On Cleome spinosa, Comerío; Mayagüez (Stevens) (21, 104).

CERCOSPORA CRUENTA Sacc.

On Phaseolus lunatus. Coll. N. Y. Bot. Garden, Vigna unquiculata, Río Piedras (90, 94).

CERCOSPORA CUCURBITÆ E. & E.

On Lagenaria leucantha, Río Piedras (90).

CERCOSPORA CUCURBITICOLA P. Henn.

On Cayaponia spp., Maricao, Rosario (Stevens) (82).

CERCOSPORA DENSISSIMA Speg.

On Sida sp., Mona Island (Stevens) (104).

CERCOSPORA FLAGELLARIS E. & M.

On Phytolacca icosandra, Maricao (Stevens) (82).

CERCOSPORA GILBERTII Speg.

On Iresine panniculata, El Alto de la Bandera (Stevens) (82).

CERCOSPORA GOSSYPINA Cke.

On Gossypium barbadense, Carolina.

CERCOSPORA GUANICENSIS Young.

On Guilandina crista, Guánica (Stevens) (104).

CERCOSPORA HENNINGSII Allesch.

On Manihot utilissima, Bayamón, Moca, Pueblo Viejo, Martín Peña; Hormigueros (Stevens) (60, 90, 94).

CERCOSPORA HIBISCI T. & Earle.

On Hibiscus esculentus, Río Piedras; Quebradillas, Aguadilla, Cabo Rojo (Stevens) (60, 90, 94).

Hibiscus tiliaccus, Camuy; Rosario, Dos Bocas, Las Marías, Maricao (Stevens) (104).

CERCOSPORA HURÆ Stevens.

On Hura crepitans, Mayagüez, Añasco (Stevens) (82).

CERCOSPORA HYDROPIPERIS (Thüm.) Speg.

On Persicaria punctata, Río Piedras, Mayagüez: Utuado, Coamo, Corozal, Ciales (Stevens) (104).

CERCOSPORA LACTUCÆ Stevenson.

On Lactuca sativa, Río Piedras (90, 94).

CERCOSPORA LEPIDII Peck.

On Lepidium virginicum, Espinosa; Mona Island (Stevens) (104).

CERCOSPORA LONGIPES Butler.

On Saccharum officinarum, Río Piedras (48, 105).

CERCOSPORA MALACHRÆ Heald & Wolf.

(Cercospora malachræ Young).

On Malachra rotundifolia, Río Piedras; San Sebastián, Ponce, Yauco, Guánica, San Germán, Vega Baja (Stevens) (104).

CERCOSPORA MARICAGENSIS Young.

On Teramnus uncinatus, Maricao, Dos Bocas, Cabo Rojo (Stevens) (104).

CERCOSPORA MIKANIACOLA Stevens.

On Mikania sp., Utuado, Aguada, Maricao (Stevens) (82).

CERCOSPORA MUCUNÆ Syd.

On Mucuna pruriens, Utuado, Dos Bocas, Mayagüez, Añasco, Rosario, Monte Alegrillo (Stevens) (104).

Stizolobium aterinium, Río Piedras.

Stizolobium sp., Río Piedras, Espinosa, Vega Baja.

CERCOSPORA NICOTIANÆ E. & E.

On Nicotiana Tabacum, Mayagüez, Bayamón, Espinosa, Sabana Llana: Quebradillas, Caguas, Ciales, Dos Bocas (Stevens) (60, 94).

CERCOSPORA ORYZÆ Miy.

On Oryza sativa Río Piedras, Canóvanas.

CERCOSPORA PERSONATA (B. & C.) E.

On Arachis hypogea, Río Piedras, Pueblo Viejo (15, 20, 90, 94).

CERCOSPORA PISA-SATIVÆ Stevenson.

On Pisum sativum, Río Piedras (90).

CERCOSPORA PHYLLITIDIS Hume.

On Polypodium sp., Barros (Stevens) (104).

CERCOSPORA PORTORICENSIS Earle.

On Piper aduncum, Río Piedras, Camuy; Mayagüez (Heller; Peñuelas, Juana Díaz, Coamo, Añasco, Ciales, Corozal, Adjuntas, Jájome Alto, Coamo Springs, Arecibo (Stevens) 19, 82).

Piper hispidum, Bayamón; Maricao, Rosario (Stevens) (104).

Piper peltatum, Río Piedras.

Piper umbellatum, Maricao, Arecibo (Stevens) (82).

Piper sp., Río Piedras, Martín Peña, Palo Seco.

CERCOSPORA RICINELLA Sacc. & Berl.

On Ricinus communis, Palo Seco, Naguabo, Espinosa; Jayuya, Yauco, Peñuelas, Utuado, Coamo (Stevens) (82, 94).

CERCOSPORA RIGOSPORA Atks.

On Solanum nigrum, Río Piedras.

CERCOSPORA ROSICOLA (Pass.) Sacc.

On Rosa, spp., Garrochales, Espinosa, Arecibo, Río Piedras; Maricao (Stevens) (89, 94, 104).

CERCOSPORA SECHIÆ Stevenson. (In ed.)

On Sechium edule, Río Piedras, Barceloneta (36, 90).

CERCOSPORA SESAMI Zimm.

On Sesamum orientale, Garrochales, Río Piedras (90).

CERCOSPORA SIMULATA E. & E.

On Cassia alata. Coll. N. Y. Bot. Garden. Probably the same as C. chamæcristæ.

CERCOSPORA STEVENSII Young.

On Andira jamaicensis, Dos Bocas (Stevens) (104).

CERCOSPORA THOUINIÆ Stevens.

On Thouinia striata, Maricao (Stevens) (82).

CERCOSPORA TRICHOPHILA Stevens.

On Helicteres jamaicensis, Peñuelas (Stevens).

Solanum torvum, Mayagüez, Utuado, Vega Baja, Río Tanamá, Monacillo, Manatí, Mona Island (Stevens).

Solanum verbascifolium, Río Piedras; El Gigante, El Alto de la Bandera (Stevens) (82).

CERCOSPORA TRICHOSTIGMÆ Stevens.

On Trichostigma octandra, Barceloneta, Río Piedras (Stevens) (82).

CERCOSPORA VAGINÆ Kruger.

On Saccharum officinarum, Cambalache, Arecibo, Fajardo, Río Piedras, Los Caños (38, 48, 94, 105).

CERCOSPORA VIGNÆ Racib.

On Vigna unguiculata, Río Piedras (84, 90).

CERCOSPORA VIOLÆ Sacc.

On Viola sp., Campo Alegre, Río Piedras, Vega Baja (89).

CERCOSPORIDIUM HELLERI Earle.

On Sphenoclea zeylanica, Canóvanas; Mayagüez (Stevens) (19, 82).

CERCOSPORIUM BETICOLA (?).

On "beans" as a root rot, P. R. Agri. Exp. Sta. Report 1903. Given by Cook (Dis. of Tropical Plants, p. 230) as C. urticola.

CLADOSPORIUM CALOTROPIDIS Stevens.

On Calotropis procera, Guayanilla (Stevens) (82).

CLADOSPORIUM (?) CITRI Mass.

On Citrus aurantium, Trujillo Alto, Sabana Llana, Naguabo, Bayamón.

Citrus decumana, Río Piedras, Palo Seco, Sabana Llana, Bayamón, Vega Baja, Espinosa, Manatí, Barceloneta, Garrochales, Santana, Naguabo, Mayagüez, Pueblo Viejo.

Citrus limonia, Bayamón, Pueblo Viejo, Palo Seco, Sabana Llana.

Citrus nobilis, Bayamón.

Citrus sinensis, Trujillo Alto, Bayamón.

An extended bibliography (6, 8, 15, 20, 22, 23, 27, 84, 88, 89, 93, 94, 96, 99).

CLADOSPORIUM FULVUM Cke.

On Lycopersicum esculentum, Río Piedras; Cabo Rojo, Utuado, Florida, Caguas (Stevens) (36, 82, 90, 94).

Solanum torvum, Río Piedras.

CLADOSPORIUM GUANICENSIS Stevens.

On Argemone mexicana, Palo Seco; Guánica, Coamo (Stevens) (82).

CLADOSPORIUM HERBARUM Link.

On Canna sp., Río Piedras; Mayagüez, Aibonito (Stevens).

Canna coccinia, Villa Alba (Stevens).

Canna glauca, Utuado (Stevens).

Canavalia obtusifolia, Boquerón (Stevens) (82).

Dead and dying flowers, leaves and stems of Zea Mays, Sesbania grandiflora, Bauhinia sp., Saccharum officinarum, Solanum melongena, Bayamón, Río Piedras, Trujillo Alto (48, 96).

CLADOSPORIUM HYPOPHLOEM B. & C.

On Thouinia sp. Coll. N. Y. Bot. Garden (Heller).

CLADOSPORIUM MANSONI Cast. and Chalmers.

As a cause of a human skin disease, black ringworm (49).

CLADOSPORIUM MIKANIÆ Stevens.

On Mikania sp., Las Marías (Stevens) (82).

ELLISIELLA PORTORICENSIS Stevens.

On Clusia rosca, Arecibo, Desecheo, Lajas, Hormigueros (Stevens) (82).

HAPLOGRAPHIUM ECHINATUM (Riv.) Sacc.

Isolated from soil, Río Piedras.

HAPLOGRAPHIUM PORTORICENSE Stevens. In mss.

On Canna coccinia, Porto Rico (Stevens).

HELMINTHOSPORIUM CALADII Stevens.

On Caladium bicolor, Guaynabo, Río Piedras; Mayagüez, Manatí, Añasco (Stevens) (82).

HELMINTHOSPORIUM GLABROIDES Stevens.

On Perisporium portoricense on Calophyllum calaba (Stevens) (82).

HELMINTHOSPORIUM MAYAGUEZENSE Miles.

On Paspalum conjugatum, Río Piedras; Mayagüez, Dos Bocas. San Germán, Añasco, Maricao (Stevens) (60, 61).

Helminthosporium Ravenelii Berk & Curt.

On Sporobolus indicus, Río Piedras; Jájome Alto, El Alto de la Bandera (Stevens) (82).

HELMINTHOSPORIUM SACCHARI Butler.

On Saccharum officinarum, Río Piedras, Camuy, Cambalache, Quebradillas, Barceloneta (48, 94, 105).

HELMINTHOSPORIUM SECHICOLA Stevenson. (In ed.)

On Sechium edule, Camuy (90).

HELMINTHOSPORIUM SPICULIFERUM E. & E.

On Thrinax sp., Utuado (Stevens) (82).

HELMINTHOSPORIUM STAHLII Stevens.

On Passiflora fætida, Mayagüez, Luquillo, Naguabo (Stevens) (82).

HELMINTHOSPORIUM TURCINUM Pass.

On Zea mays, Mayagüez, Río Piedras (94).

HELMINTHOSPORIUM VARRONIÆ Stevens.

On Varronia sp., Florida (Stevens) (82).

HORMIACTELLA SACCHARI Johnston.

On dead leaves of sugar cane and other grasses, Río Piedras, Naguabo, Ponce, Yauco, Canóvanas, Mameyes, Añasco (48).

Macrosporium porri Ell.

On Allium cepa, San Juan, Río Piedras.

MICROCLAVA COCCOLOBIÆ Stevens.

On Coccoloba diversifolia, Maricao (Stevens) (82).

MICROCLAVA MICONIÆ Stevens.

On Miconia lævigata, Aguas Buenas (Stevens) (82).

NAPICLADIUM FUMAGO Speg.

On Miconia sp., Arecibo (Stevens) (82).

Passalora cecropiæ Stevens.

On Cecropia peltata, Arecibo (Stevens) (82).

PERICONIA PYCNOSPORA Fres.

On Xanthosoma sp. (Yautía). Reported from Mayagüez (7, 8, 15, 90).

PERICONIA SACCHARI Johnston.

On dead and dying sugar-cane leaves, Río Piedras, Fajardo (48).

SEPTONEMA SACCHARI Johnston & Stevenson.

On dead sugar-cane leaves and stalks, Río Piedras (48).

TETRACOCCOSPORIS SACCHARI Stevenson.

On sugar-cane debris, Río Piedras (48).

Tetraploa aristata B. & Br.

On dead sugar-cane stalks and leaves, Río Piedras (48).

THIELAVIOPSIS PARADOXA (De Seynes) V. Hohn.

On Ananas sativus, causing a fruit rot occurring in all sections of the Island (94).

Cocos nucifera, causing a trunk-bleeding disease (Fawcett, 26).

Saccharum officinarum, Río Piedras, Yabucoa, Canóvanas, Fajardo, Arecibo (23, 26, 38, 40, 41, 44, 48, 87, 91, 94, 105).

TRIPOSPORIUM STELLIGERUM Speg.

On Anona montana, Mayagüez (Stevens).

Chiococca alba, Vega Baja (Stevens).

Myrcia deflexa, El Alto de la Bandera (Stevens).

Rudolphia volubilis, Maricao, El Yunque (Stevens). .

Winterana canella, Guayanilla (Stevens).

Zamia integrifolia (Stevens) (82).

VERTICICLADIUM GRAMINICOLUM Johuston & Stevenson.

On dead cane leaves, Río Piedras (48).

Zygosporium oschioides Mont.

On Pucciniopsis carica on Carica papaya, Río Piedras (60, 94).

STILBACEÆ.

DENDROGRAPHIUM ATRATUM Massee.

On dead wood, Mameyes.

GIBELLULA ARACHNOPHILA Sacc.

On spiders of the family Attidu, Río Piedras, Vega Baja, Espinosa (46).

GRAPHIUM SACCHARI Speg.

On dead sugar-cane stalks, Río Piedras, Gurabo (48).

GRAPHIUM SQUARROSUM Ell. & Langl.

On dead bamboo, Río Piedras.

ISARIA BARBERI Giard.

(Cordyceps Barberi Giard.)

On larvæ of *Diatræa saccharalis*, Río Piedras, Guánica, Santa Isabel, Patillas (46).

ISARIA SAUSSUREI Cooke.

On Bothriocera sp., on Palicourea crocea, Río Piedras.

ISARIA UMBRINA Pers.

On dead wood, Río Piedras.

ISARIOPSIS GRISEOLA Sacc.

On Phaseolus lunatus, Río Piedras; Mayagüez (Thomas).

Phaseolus vulgaris, Río Piedras, Barceloneta, Camuy; Jayuya, Mayagüez, Dos Bocas (Stevens) (60, 90, 94).

Podosporium Pallida Pat.

On Meliola amphitricha on Randia aculeata. Coll. N. Y. Bot. Garden.

STILBELLA FLAVIDA Lind.

(Stilbum flavidum Cooke.)

On Bryophyllum pinnatum, Maricao (Stevens).

Citrus sinensis, Cissus sicyoides, Commelina sp., Inga veru, Mangifera indica (Fawcett) (31).

Coffea arabica, Mayagüez; Dos Bocas, Jayuya, Ponce, Monte de Oro, Maricao, El Gigante, Arecibo-Lares (Stevens). Frequently reported by Fawcett and others (6, 8, 15, 20, 23, 24, 26, 30, 31, 81, 82). Also noted by T. C. McCleland on C. excelsa, C. macrocarpa, C. perrieri, C. robusta, C. sp. var. Quillou; and by Fawcett on C. stenophylla, C. arabica var. Columnaris, C. laurentii (30).

Elephantopus mollis, Jayuya, Monte de Oro (Stevens).

Piper macrophyllum, Monte de Oro (Stevens).

Psychotria uliginosa, El Alto de la Bandera (Stevens).

Synedrella nodiflora, Ponce (Stevens) (82).

TUBERCULARIACEÆ.

AEGERITA WEBBERI Faw.

On Aleyrodicus minimus on Psidium guayaba, Río Piedras, Espinosa (46).

EPICOCCUM NEGLECTUM Desm.

On Cestrum sp., Cabo Rojo (Stevens) (82).

Fusarium cubensis Er. Sm.

On Musa paradisiaca, Isabela, Mayagüez, Río Piedras, Moca. Causing a serious trunk rot (10, 11, 32). FUSARIUM LIMONIS Bri.

On Citrus decumana (C. limonis root), Espinosa, Garrochales, Bayamón, Pueblo Viejo, Sabana Llana (94, 96).

FUSARIUM RADICICOLA Wollenw.

On Musa sapientum. Mentioned by Pratt in Jour. Agri. Research, v. 3, no. 9, p. 299, in connection with a study of the fungus on other hosts.

FUSARIUM SOLANI (Mart.) Sacc.

On Vanilla planifolia, Mayagüez (Thomas).

ILLOSPORIUM COMMELINÆ Stevens.

On Commelina longicaulis, Caguas, Rosario, Las Marías, Guayanilla, Hormigueros (Stevens).

Commelina virginica, Aguada, El Gigante (Stevens) (82).

MICROCERA FUJIKUROI Miy. & Saw.

On Chrysomphalus aonidium on Citrus decumana, Pueblo Viejo. Lepidosaphes beckii on Citrus decumana, and C. sinensis, Bayamón, Mayagüez, Pueblo Viejo.

Pseudoanidia articulatus, on Citrus decumana, Pueblo Viejo (85, 89).

Myrothecium verrucaria (A. & S.) Dtm.

On dead sugar-cane leaves and dead citrus twigs, Río Piedras (48, 96).

Pucciniopsis caricæ Earle.

On Carica papaya, Río Piedras; Guánica, Vega Baja, Mona (Stevens) (20, 60, 94).

SPEGAZZINIA ORNATA Sacc.

On dead sugar-cane leaves and other plant debris, Río Piedras, Ponce, Santa Isabel, Cortada, Sabana Llana (48).

TUBERCULARIA COCCICOLA Stevenson.

On Lepidosaphes beckii and Chionaspis citri, on Citrus decumana and C. sinensis, Espinosa, Río Piedras, Pueblo Viejo, Bayamón (94, 96).

TUBERCULARIA SACCHARICOLA Speg.

On dead sugar-cane stalks, Río Piedras, Las Monjas, Carolina (48).

STERILE MYCELIA.

HIMANTIA STELLIFERA Johnston.

On Andropogon bicornis, Río Piedras.

Cymbopogon citratus, Río Piedras.

Cyperus sphacelatus, Río Piedras.

Dichromena ciliata, Río Piedras.

HIMANTIA STILLIFERA Johnston.—Continued.

On Heliotropium indicum, Río Piedras.

Panicum laxum, Río Piedras.

Panicum maximum, Río Piedras.

Paspalum paniculatum, Río Piedras.

Paspalum plicatulum, Río Piedras.

Paspalum secans, Río Piedras.

Paspalum millegrana, Río Piedras.

Paspalum virgatum, Río Piedras.

Saccharum officinarum, Río Piedras, Cambalache, Juncos, Carolina, Guayama, Camuy, Isabela, Humacao, Peñuelas (23 48, 91, 94, 105).

Rynchospora cyperoides, Río Piedras.

Sporobolus indica, Río Piedras.

Stenotaphrum secundatum, Río Piedras.

Syntherisma digitata, Río Piedras.

Zea mays, Toa Baja.

OZONIUM STUPOSUM Pers.

Reported from the Schwanecke collection (50).

RHIZOCTONIA SOLANI Kühn.

See Corticium vagum.

SCLEROTIUM BATATICOLA Taub.

On Ipomæa batatas, Río Piedras. Charcoal rot.

Sclerotium Griseum Stevenson. (In ed.)

On Musa paradisiaca, Río Piedras,

Saccharum officinarum, Río Piedras, Hormigueros, Las Monjas (48).

Zea mays, Río Piedras.

SCLEROTIUM PORTORICENSE Stevens.

On Capriola dactylon, Río Piedras; Santurce (Stevens) (82). Sclerotium Rolfsii Sacc.

On Artocarpus communis, Bayamón.

Bambusa vulgaris, Río Piedras.

Capsicum annuum, Río Piedras (94).

Citrus decumana, Bayamón, Sabana Llana (94, 96).

Daucus carota, Río Piedras.

Lycopersicum esculentum, Río Piedras.

Phaseolus vulgaris, Río Piedras.

Saccharum officinarum, Río Piedras, Las Monjas, Guaynabo, Hormigueros (38, 48, 94, 105).

Solanum melongena, Río Piedras (90, 94).

Sclerotium Rolfsii Sacc.—Continued.

On Triticum vulgare, Mayagüez (Thomas). Vicia faba, Río Piedras.

FUNGI OF UNKNOWN AFFINITY.

GRAPHIOLA CONGESTA B. & Rav.

Coll. N. Y. Bot. Garden. Host unknown.

GRAPHIOLA PHŒNICIS (Moug.) Port.

On Inodes causiarum, Jayuya (Stevens) (82).

Phanix dactylifera, Santa Rita, Santurce, San Juan, Palo Seco (20, 81, 82, 89, 94).

Thrinax praceps, Utuado (Stevens) (82).

PARASITIC ALGAE.

CHROOLEPIDÆ.

CEPHALEUROS VIRESCENS Kunze.

(Cephaleuros mycoidea Karst.) (Cephaleuros candelabrum Lagerh.)

On Achras zapota, Río Piedras.

Acrodiclidium salicifolium, Hormigueros (Stevens).

Alchornea latifolia, Río Piedras.

Artocarpus incisa, Espinosa.

Cajanus indicus, Vega Baja, Río Piedras (37).

Camphora officinalis, Naguabo.

Casearia sp., Río Piedras.

Cestrum laurifolium, Mayagüez (Stevens) (82).

Chrysobalanus icacao, Espinosa.

Citrus aurantifolia, Río Piedras, Sabana Llana (96).

Citrus aurantium, Palo Seco, Manatí (96).

Citrus decumana, Barceloneta, Trujillo Alto, Río Piedras (89, 96).

Citrus limonia, Caguas, Campo Alegre (96).

Clusia rosea, Naguabo.

Coccolobis diversifolia, Maricao (Stevens) (82).

Cupania americana (Stevens) (82).

Cydista aquinoctialis, Río Piedras.

Dendropanax arboreum, Río Tanamá (Stevens).

Eriobotrya japonica, Naguabo.

Ficus lavigata, Río Piedras.

Ficus nitida, Río Piedras.

CEPHALEUROS VIRESCENS Kunze.—Continued.

On Ficus reptans, Bayamón.

Hibiscus rosa-sinensis, Río Piedras.

Inga laurina, Jájome Alto, Mayagüez (Stevens).

Inga vera, Río Piedras.

Jambosa jambos, Espinosa; Añasco (Stevens).

Lasiacis sorghoidea, Jájome Alto (Stevens) (82).

Lonicera japonica, Naguabo.

Mangifera indica, Río Piedras.

Meibomia axillaris, Río Piedras.

Miconia lavigata, Mayagüez (Stevens) (82).

Miconia impetiolaris, Bayamón.

Muehlenbeckia platyclada, Río Piedras.

Myrcia deflexa, Mayagüez (Stevens).

Nectandra patens (Stevens).

Ocotea leucoxylon, Mayagüez (Stevens).

Piper medium, Río Piedras.

Polyscias guilfoylei, Naguabo.

Psidium guayava, Río Piedras, Espinosa; Mayagüez (Stevens).

Somidesia lindeniana, Jájome Alto (Stevens) (82).

Theobroma cacao, Mayagüez.

Vanilla planifolia, Mayagüez (Thomas).

SUMMARY.

	Genera.	Species.
MYXOMYCETES	_ 14	27
SCHIZOMYCETES	_ 3	9
PHYCOMYCETES	10	17
ASCOMYCETES:		
SACCAROMYCETALES	_ 1	3
Perisporiales	_ 22	1.11
HYPOCREALES	_ 25	34
Dothidiales	_ 4	21
Superiales	_ 38	95
HYSTERIALES	_ 2	4
Pezizales	_ 15	19
Phacidiales	_ 1	9
BASIDIOMYCETES:		
USTILAGINALESZ	_ 11	19
UREDINALES '	_ 20	161
AGARICALES		
TREMELLACEÆ	3	8
CLAVARIACEÆ	_ 1	2
THELEPHORACEÆ	11	41
HYDNACEÆ	3	9
POLYPORACEÆ	_ 10	86
Agaricaceæ	_ 22	46
LYCOPERDALES	9	20
FUNGI IMPERFECTI:		
Phomatales	. 16	72
Melanconiales	_ 4	31
Moniliales—		
Moniliaceæ	21	31
Dematiaceæ	_ 24	104
STILBACEÆ	7	10
Tuberculariaceæ	9	13
STERILE MYCELIA, mise	_ 6	10
TOTAL	312	1, 035

HOST INDEX.

A

Abutilon hirtum Puccinia heterospora Abutilon indicum Puccinia heterospora

Abutilon umbellatum Phyllosticta hybiscina

Acacia riparia Ravenelia Stevensii

Acalypha bisetosa Meliola arecibensis

Acalypha mosaica Rosellinia bunodes

Achras zapota Cephaleuros virescens

Achyranthes aspera Cercospora achyranthes

Acrista monticola Auerswaldia palmicola Meliola furcata Pestalozzia funerea

Acrocomia media Cercospora acrocomiae Pestalozzia palmarum

Aerodiclidium salicifolium Cephaleuros virescens

Adiantum sp. Meliola pteridicola

Adiantum latifolium
Meliola pteridicola
Micropeltis manthæ (?)
Uredo gymnogrammes

Adiantum tenerum
Phyllostieta adianticola

Aegiphila martinicensis Guignardia prominens Aeschynomene americana Uredo aeschynomensis

Agave rigida var. sissalana Endothia Parryi

Lembosia agaves

Ageratum conyzoides Puccinia rosea

Aklema petiolaris Puccinia euphorbiæ

Puccinia euphort Albizzia lebbeck

Phyllosticta divergens

Alchornea latifolia Cephaleuros virescens

Olivea capituliformis
Allium cepa

Macrosporium porri Urocystis cepulæ

Allophylus crassinervis Meliola thouiniæ

Alpinia antillarum Heterothecium phyllocharis Phyllachora renalmiæ

Alternanthera portoricensis Cercospora alternantheræ

Alternanthera sessilis Guignardia cephalariæ var. alternantheræ

Amaranthus spinosus

Amaranthus viridis

Amomis caryophyllata

Meliola amonicola Amygdalus persica

Amyris elemifera

224

Ananas sativus Spegazzinia ornata Thielaviopsis paradoxa

Andira jamaicensis Cercospora Stevensii Meliola andiræ

Physalospora andiræ

Andropogon bicornis
Himantia stellifera
Meliola panici
Myriogenospora Bresadoleana
Phyllachora luteo-maculata
Tolyposporella Brunkii

Andropogon brevifolius Phyllachora graminis Uredo venustula

Andropogon leucostachyus Dothiclœ atramentosa Meliola panici Phyllachora luteo-maculata

Ancimia sp.
Meliola pteridicola
Ancimia adiantifolia
Meliola pteridicola

Anona montana
Brachysporium stemphyloides
Meliola longipoda
Triposporium stelligerum
Anthurium acaule

Mycosphærella anthurii Anthurium scandens

Uredo anthurii Apium graveolens Bacillus carotovorus Phyllosticta apii Septoria petroselini var. apii

Arachis hypogea
Cercospora personata
Uredo arachidis
Ardisia guadalupensis

Meliola myrsinacearum

Argemone mexicana Cladosporium guanicensis Septoria chelidonii

Aristida portoricensis Balansia discoidea Dothichlæ aristidæ

Arracacia anthorrhiza Erysiphe polygoni

Arthrostylidium sarmentosum Dimeriopsis arthrostylidicola Phyllachora graminis

Artocarpus camansi Uredo artocarpi Artocarpus insisa Cephaleuros viresce

Uredo artocarpi Zignoella algaphial

Asclepias curassavica Puccinia concrescens Uromyces Howei

Asclepias nivea
Puccinia concrescens
Avicennia nitida
Meliola sepulta

Axonopus compressus Myriogenospora Bresadoleana Uredo paspalicola

I

Bambusa vulgaris
Melanconium saccharinuu
Uredo paspalicola
Banisteria laurifolia
Meliola rectangularis
Bauhinia pauletia

Bauninia pauletia Cladosporium herbarum Uromyces jamaicensis

Begonia decandra Stilbella flavida Bernardia bernard

Cercospora bernardiæ

Beta vulgaris Cercospora beticola Bidens leucantha

Entyloma guaraniticum Sphærotheca humuli Thecaphora pustulata Uromyces bidenticola

Uromyces bidentis

Bidens pilosa

Uromyces bidenticola Uromyces bidentis

Bidens reptans

Sphærotheca humuli

Bihai borinquena Uredo heliconiæ

Bixa orellana

Cercospora bixæ Phyllosticta bixina

Uredo bixæ

Blechum Brownei Puccinia blechi

Bletia patula
Uredo nigropunctata

Boerhaavea erecta

Albugo platensis

Boerhaavea hirsuta Albugo platensis

Borreria lævis

Meliola psychotriæ Puccinia lateritia

Borreria ocimoides

Meliola psychotriæ

Borreria verticillata

Bradburya pubescens Cercospora bradburyæ Meliola bicornis

Bradburya virginiana

Brassica arvensis Cercospora bloxami Brassica integrifolia
Albugo candida

Cercospora bloxami Erysiphe polygoni

Brassica japonica

Cercospora bloxami

Brassica juncea

Bacillus carotovorus Cercospora bloxami

Brassica napi

Cercospora bloxami

Brassica oleracea

Bacterium campestris

Brassica Pe-tsai

Cercospora bloxami

Brassica rapæ

Cercospora bloxami Colletotrichum Higginscanum

Bromelia pinguin

Perisporium bromeliæ

Bryophyllum pinnatum Stilbella flavida

Byrsonima crassifolia

Uredo notata
Byrsonima lucida
Meliola byrsonimæ

C

Cæsalpinia pulcherrima Ravenelia Humphreyana

Cajanus indicus

Cephaleuros virescens

Cercospora cajani

Creonectria gramnicospora

Megalonectria pseudotrichia

Nectria episphæria

Pleonectria megalonectria

Uromyces dolicholi

Caladium bicolor

Helminthosporium caladii

Calathea lutea Puccinia cannæ

Calophyllum calaba Meliola calophylli Perisporium portoricense

Calopogonium orthocarpum Cercospora borinquensis Meliola bicornis var. calopogo-

Calotropis procera

Camphora officinalis Cephaleuros virescens

Campyloneurum sp. Corynelia pteridicola

Canavalia ensiformis Cerotelium canavaliæ

Canavalia gladiata Cerotelium canavaliæ Cladosporium herbarum

Canavalia obtusifolia Cladosporium herbarun

Canna coccinea
Cladosporium herbarum
Haplographium portoricense
Puccinia cannæ

Canna edulis Periconia pycnospora

Canna glauca
Cladosporium herbarum
Puccinia cannæ

Canna indica Myrmæcium cannæ (?)

Capriola dactylon
Puccinia cynodontis
Sclerotium portoricense

Capsicum annuum .
Cercospora capsici
Cladosporium herbarum
Colletotrichum nigrum

Capsicum annuum—Cont.
Gloeosporium piperatum
Pestalozzia funerea
Sclerotium Rolfsii

Capsicum baccatum Meliola capsicola

Capsicum frutescens Gloeosporium piperatum

Cardiospermum microcarpum Puccinia arechavelatæ

Carica papaya
Colletotrichum falcatum
Glomerella cingulata
Pucciniopsis caricæ
Zygosporium oschioides

Casearia sp.
Cephaleuros virescens
Meliola paulliniæ

Casearia aculeata Meliola paulliniæ

Casearia arborea Meliola paulliniæ

Casearia guianensis Cercospora caseariæ

Casearia ramiflora Cercospora caseariæ Meliola paulliniæ

Casearia sylvestris Cercospora caseariæ Meliola paulliniæ

Carcospora chamæcrista Cercospora simulata

Cassia emarginata Ravenelia portoricensis

Phyllachora cassiæ

Cassia occidentalis
Cercospora chamæcrista
Erysiphe polygoni

Cassia quinquangulata Meliola toruloidea Uredo lutea

Cassia tora Erysiphe polygoni

Cayaponia americana Cercospora cucurbiticola Dimerium cayaponiæ Uromyces Hellerianus

Cayaponia racemosa Meliola cucurbitacearum Uromyces Hellerianus

Cecropia peltata Passalora cecropiæ

Cenchrus carolinianus

Cenchrus echinatus Phyllachora sphærosperma Puccinia cenchri

Cenchrus myosuroides
Phyllachora sphærosperma

Cenchrus viridis
Puccinia cenchri

Centella asiatica Septoria asiatica

Cestrum sp. Epicoccum neglectum

Cestrum laurifolium Cephaleuros virescens Meliola gesneriæ Uromyces cestri

Cestrum macrophyllum Meliola gesneriæ Uromyces cestri

Chætochloa geniculata Puccinia substriata

Chaetochloa setosa Puccinia cameliæ

Chamæcrista aeschynomene Erysiphe polygoni Ravenelia cassiæcola Chamæcrista diphylla Erysiphe polygoni

Chamæcrista glandulosa Meliola chamæcristæ Ravenelia cassiæcola

Chamæcrista granulata Meliola chamæcristicola

Chamæsyce brasiliensis Microsphæra euphorbiæ Uromyces proëminens

Chamæsyce hirta Uromyces proëminens

Chamæsyce hypericifolia Microsphæra euphorbiæ Uromyces proëminens

Chamæsyce prostrata Uromyces proëminens

Chiococca alba Meliola chiococcæ Meliola psychotriæ Triposporium stelligerum

Chloris petræa Dothichlæ atramentosa Meliola panici

Chrysobolanus icaco Cephaleuros virescens Mycosphærella chrysobalani Pestalozzia guepinia

Chrysophyllum sp. Meliola ocoteicola

Cissus acida Mykosyrinx cissi

Mykosyrinx cissi

Cissus sicyoides
Endophyllum circumscriptum
Meliola Merrillii
Mykosyrinx cissi
Phyllosticta cissicola
Stilbella flavida

Citrullis vulgaris
Cercospora citrullina

Diplodia sp.

Citrus aurantifolia

Cephaleuros virescens

Diplodia natalensis

Penicillium digitatum

Citrus aurantium

Cephaleuros virescens

Cladosporium citri

Stereum coffearum

Citrus decumana

Aspergillus flavus

Aspergillus niger

Capnodium citri

Cephaleuros virescens

Cladosporium citri

Cladosporium herbarum

Colletotrichum gloeosporioides

Corticium confluens

Corticium salmonicolor

Daldinia concentrica

Diplodia natalensis

Graphis afzelii

Hypoxylon fuscopurpurea

Lecanidion cyaneum

Leptothyrium pomi

Myrthecium verrucaria

Nectria episphæria

Penicillium crustaceum

Penicillium digitatum

Penicillium italicum

Peniophora cinerea

Peniophora flavido-alba

Pestalozia guepinia

Phomopsis citri

Polystictus occidentalis

Polystictus pinsitus

Rhizopus nigricans

Schizophyllum commune

Sclerotium Rolfsii

Citrus decumana—Cont.

Septobasidium lilacinum

Stereum albo-badium

Stictis radiata

Tryblidium rufulum

Ustilina vulgaris

Citrus limonis

Capnodium citri

Cephaleuros virescens

Cladosporium citri

Diplodia natalensis

Penicillium digitatum

Citrus nobilis

Cladosporium citri

Diplodia natalensis

Penicillium digitatum

Citrus sinensis

Alternaria citri

Aspergillus niger

Capnodium eitri

Cephaleuros virescens

Cladosporium citri

Colletotrichum glæosporioides

Corticium salmonicolor

Diplodia natalensis

Leptothyrium pomi

Penicillium digitatum

Peniophora cinerea

Phomopsis citri

Rhizopus nigricans

Schizophyllum commune

Stictis radiata

Stilbella flavida

Ustilina vulgaris

Cleome pentaphylla

Cercospora conspicua

Clibadium erosum Endophyllum decoloratum

Clidemia hirta

Meliola melastomacearum

Clidemia strigillosa

Meliola melastomacearum
Clitoria cajanifolia

Uromyces neurocarpi
Clitoria rubiginosa

Uromyces neurocarpi

Clusia gundlachii Mycosphærella guttiferæ Guignardia elusiæ

Clusia minor Meliola clusiæ

Clusia rosea
Cephaleuros virescens
Clithris clusiæ
Clithris minor
Dimerium melioloides
Ellisiella portoricensis
Mycosphærella clusiæ
Pestalozzia funerea
Phyllosticta clusiæ

Coccocypselum repens Meliola glabra var. psychotriæ

Coccolobis sp.

Uredo clusiæ

Cephaleuros virescens Melasmia coccolobiæ Meliola prætervisa Phyllosticta coccolobæ

Coccolobis diversifolia Cephaleuros virescens Microclava coccolobiæ

Coccolobis laurifolia Meliola rectangularis

Coccolobis nivea
Trabulia portoricensis

Coccolobis pyrifolia Meliola prætervisa

Coccolobis sintenisii Meliola prætervisa

Coccolobis uvifera Lembasia coccolobæ Coccolobis uvifera—Cont.
Pestalozzia uvifera
Uredo coccolobæ
Coccothrinax alta
Meliola furcata

Cocos nucifera Pestalozzia palmarum Thielaviopsis paradoxa

Coffea spp.
Pellicularia koleroga
Stilbella flavida

Coffea arabica
Cercospora coffeæ
Cercospora coffeicola
Colletotrichum coffeanum
Hemileia vastatrix
Micropeltis longispora
Pellicularia koleroga
Rosellinia bunodes
Stilbella flavida

Stilbella flavida Coffea excelsa Stilbella flavida

Coffea Perrieri Stilbella flavida Coffea robusta

Stilbella flavida

Colocasia esculenta Phyllesticta colocasicola

Commelina longicaulis
Illosporium commelinæ
Commelina nudiflora

Phyllosticta commelinicola
Stilbella flavida

Commelina virginica
Illosporium commelinæ
Uredo commelyneæ
Uromyces commelinæ

Comocladia glabra Meliola comocladiæ

Conocarpus erecta Meliola lagunculariæ Cordia sp.

Meliola longipoda

Cordia alliodora
Puccinia cordia

Cordia collococca

Trabutiella cordiæ

Cordia corymbosa

Dimerium Stevensi
Meliola longipoda

Cordia nitida Meliola longipoda

Cordia sulcata
Dimeriella cordia

Cordyline terminalis
Phyllosticta maculicola

Cosmos caudatus
Erysiphe cichoracearum
Uromyces bidentis

Cosmos sulphureus Sphærotheca humuli

Cracca cinerea Ravenelia caulicola

Crassina elegans Cercospora atricineta

Crossopetalum pallens Meliola compacta

Crotafaria retusa
Dimerium grammodes
Microsphæra diffusa
Parodiella perisporioides

Croton discolor

Croton lucidus
Phyllosticta portoricensis

Cucumis anguria
Pellicularia Koleroga
Peronoplasmopora cubensis

Cucumis meto
Colletotrichum lagenarium
Mycosphærella citrullina
Peronoplasmopora cubensis

Cucumis melo—Cont.
Phyllosticta citrullina
Phytophthora terrestria

Cucumis sativus

Colletotrichum lagenarium

Peronoplasmopora cubensis

Phyllosticta cucurbitacearum

Cueurbita moschata Peronoplasmopora cubensis

Cupania sp.

Meliola cupaniæ

Cupania americana Cephaleuros virescens Meliola cupaniæ Meliola prætervisa

Cuphea parsonsia Uredo cupheæ

Cydista æquinoctialis Cephaleuros virescens Puccinia cuticulosa

Cymbopogon citratus Himantia stellifera Melanconium saccharinum

Cyperus sp. Meliola cyperi

Cyperus ferax
Puccinia canaliculata

Cyperus giganteus Phyllachora cyperi Puccinia canaliculata

Cyperus lævigatus Puccinia canaliculata

Cyperus ligularis Cintractia limitata

Cyperus odoratus Puccinia canaliculata

Cyperus polystachus Puccinia canaliculata

Cyperus radiatus Puccinia canaliculata Cyperus reticulatus
Puccinia canaliculata
Cyperus sphacelatus
Cintractia axicola
Puccinia canaliculata
Cyperus surinamensis
Puccinia canaliculata

125

Dahlia variabilis Erysiphe cichoracearum Dalbergia sp. Datura suaveolens Daucus carota Dendropanax arboreum Cephaleuros virescens Meliola didymopanicis Mycosphærella didymopanicis Phyllosticta araliana Dendropanax laurifolium Dianthus sp. Alternaria dianthi Dichromena ciliata Uredo dichromenæ Dichromena radicans Didymopanax morototoni Mycosphærella didymopanicis Dieffenbachia seguine Meliola dieffenbachiæ Phyllosticta colocasiæ Diodia littoralis Puccinia lateritia

Puccinia lateritia

Diodia rigida Puccinia lateritia Dioscorea alata Cercospora carbonacea Dioscorea polygonoides Uredo dioscoreæ Dipholis salicifolia Meliola dipholidis Erysiphe polygoni Uromyces dolicholi Dolicholus reticulatus Uromyces dolicholi Dolichos biflorus Erysiphe polygoni Dolichos lablab Physopella concors Drymaria cordata Physalospora caryophyllini-Dryopteris mollis Uredo gymnogrammes Dryopteris poiteana Uredo gymnogrammes Drypetes sp. Meliola glabra

E

Echinodorus cordifolius
Burrillia echinodori
Eleocharis capitata
Puccinia eleocharidis
Eleocharis cellulosa
Puccinia eleocharidis
Eleocharis flaccida
Puccinia eleocharidis

Eleocharis geniculata Eleocharis interstincta Puccinia eleocharidis Eleocharis mutata Puccinia eleocharidis Elephantopus mollis Coleosporium elephantopodis Stilbella flavida Eleutheranthera ruderalis Puccinia synedrellæ Emilia sonchifolia Puccinia synedrellæ Epidendrum difforme Uredo guacæ Epidendrum rigidum Uredo guacæ Eragrostis tephrosanthos Uromyces eragrostidis Erigeron pusillum Eriobotrya japonica Cephaleuros virescens Eriochloa subglabra Puccinia substriata Erithalis fruticosa Meliola psychotriæ

Eugenia monticola Meliola Helleri Eugenia Stahlii Meliola Helleri Eupatorium sp. Erysiphe galeopsidia (?) Meliola compositarum Coleosporium eupatorii Eupatorium microstemum Erysiphe cichoracearum Meliola compositarum Phyllosticta eupatoricola Eupatorium portoricense Meliola compositarum var. portoricense Exogonium repandum Phyllosticta ipomoeæ Ficus sp.

F
Ficus sp.
Kuehneola fici
Physalospora hoyæ
Ficus carica
Kuehneola fici
Ficus crassinervia
Kuehneola fici
Ficus lævigata
Cephaleuros virescens
Kuehneola fici
Ficus lentiginosa
Cephaleuros virescens
Nummularia bulliardii
Ficus reptans
Cephaleuros virescens

Fimbristylis diphylla Cintractia axicola Puccinia fimbristylid

Fimbristylis ferruginea Cintractia axicola Puccinia fimbristylidis Uredo superior

Fimbristylis miliacea Puccinia fimbristylidis

Fimbristylis spadicea Uredo superior

Forsteronia corymbosa

Meliola tabernæmontanæ var.

forsteroniæ

Fragaria sp. Mycosphærella fragariæ

Fuirena umbellata Uredo fuirenæ

Furcræa tuberosa Endothia parryi Phoma fourcroyæ

G

Galactia dubia Meliola bicornis var. galactiæ

Galactia striata Phyllachora galactiæ

Galactia tenuiflora Phyllachora galactiæ

Garcinia mangostana Pellicularia koleroga

Gesneria albiflora Meliola gesneriæ Nitschkia nervincola

Gomiopteris guadalupensis Uredo gymnogrammes

Gonzalagunia spicata Meliola psychotriæ Wageria portoricensis Gossypium barbadense Cercospora gossypina Kuehneola gossypii Ramularia areola

Gossypium brasiliense Kuehneola gossypii

Gossypium hirsutum Kuehneola gossypii

Gouania lupuloides

Meliola tenuissima

Puccinia gouaniæ

Uredo gouaniæ

Gouania polygama
Puccinia gouaniæ
Uredo gouaniæ

Graptophyllum pictum Rosellinia bunodes

Guarea trichilioides Meliola guareæ Meliola guareicola Phyllosticta guareæ

Guettarda ovalifolia Meliola guettardæ Meliola psychotriæ Septoria ovalifolia

Guettarda scabra Meliola psychotriæ

Guilandina crista Cercospora guanicensis Phyllosticta guanicensis

Gymnanthes lucida Meliola gymnanthicola

Gymnogramma sulphura Mycosphærella tyrolensis

TT.

Habenaria maculosa
Uredo gynandrearum
Hamelia erecta
Uredo hamelia

Helianthus annuus
Bacterium solanacearum (?)

Helicteres jamaicensis Cercospora trichophila Guignardia helicteres Phyllosticta borinquensis

Hemidiodia ocimifolia Aecidium borreriæ

Heterotrichum cymosum Guignardia heterotrichi Meliola melastomacearum Phyllachora peribebuyensis

Hibiscus sp.

Cephaleuros virescens

Hibiscus esculentus Cercospora hibisci Choanephora cucurbitarum

Hibiscus sabdariffa Microsphæra euphorbiæ

Hibiscus tiliaceus Cercospora hibisci Meliola triumfettæ Phyllachora minuta

Hippocratea volubilis
Botryorhiza hippocrateæ
Pestalozzia funerea

Holcus halepensis
Colletotrichum lineole
Puccinia purpurea

Holeus sorghum Colletotrichum lineola Puccinia purpurea

Holcus sorghum var. sudanensis Puccinia purpurea

Hura crepitans
Cercospora huræ
Colletotrichum curvisetum

Hydrocotyle australis Puccinia hydrocotyles Hydrocotyle umbellata Puccinia hydrocotyles

Hygrophila brasiliensis Meliola irregularis

Hymenæa courbaril Uredo hymenææ

Hymenocallis expansa Cercospora amaryllidis Gloeosporium hemerocallidis

Hypelate trifoliata Meliola glabra

Hypoxis decumbens Uredo globulosa

Hyptis sp. Meliola hyptidicola

Hyptis atrorubens Meliola hyptidicola Puccinia medellinensis

Hyptis capitata
Meliola hyptidicola
Pseudomeliola collapsa
Puccinia hyptidis

Hyptis latanifolium Meliola hyptidicola Puccinia insititia

Hyptis pectinatum Meliola hyptidicola Puccinia medellinensis

Hyptis suaveolens

Puccinia medellinensis

Ţ

lchnanthus pallens Dothichlæ nigricans Meliola panici Puccinia substriata

Ilex nitida Meliola maricænsis Indiogofera suffruticosa Ravenelia indigoferæ

Inga laurina

Cephaleuros virescens Dimerium truncatum

Melasmia ingæ

Meliola toruloidea

Microstroma

Perisporium truncatum

Polystictus maximus

Ravenelia ingæ

Stereum caperatum

Inga vera

Antennularia tenuis Cephaleuros virescens

Dimerium truncatum

Meliola toruloidea

Mycosphaerella maculiformis

Pestalozzia funerea

Ravenelia ingæ

Revenelia Whetzelii

Stilbella flavida

Inodes causiarum

Graphiola phenicis

Ipomœa sp.

Meliola clavulata Meliola ipomϾ

Ipomea angustifolia

Coleosporium ipomææ

Ipomœa batatas

Albugo ipomϾ-panduranæ Coleosporium ipomϾ

Diplodia tubericola

Meliola clavulata

Meliola ipomoeæ

Phyllosticta batatas

Rhizopus nigricans

Schizophyllum commun

Ipomœa bona-nox

Cladosporium herbarun

Ipomœa cathartica

Meliola clavulata Meliola ipomϾ

Meliola quadrispina

Ipomœa littoralis

Coleosporium ipomææ

Ipomœa nil

Coleosporium ipomææ

Ipomœa pes-capræ

Albugo ipomϾ-panduranæ

Ipomœa rubra

Coleosporium ipomϾ

Meliola clavulata

Ipomœa stolonifera

Coleosporium ipomææ

Ipomœa tiliacea

Albugo ipomϾ-panduranæ

Meliola ipomϾ

Meliola clavulata

Ipomœa triloba

Puccinia crassipes

Iresine elatior

Puccinia macropoda

Iresine panniculata

Cercospora Gilbertii

J

Jacquemontia rodiflora

Albugo ipomææ-panduranæ

Uromyces gemmatus

Jacquemontia tamnifolia

Albugo ipomϾ-panduranæ

Coleosporium ipomææ

Jacquinia barbasco

Dimerina jacquinia

Jacquinia Berterii

Phyllachora inclusa

Jambosa jambos

Cephaleuros virescens Pestalozzia funerea

Puccinia psidii

Jatropha curcas
Uredo jatrophicola
Jatropha gossypifolia
Uredo jatrophicola
Jatropha hernandifolia
Meliola jatrophæ
Justicia verticillaris
Guignardia justiciæ

K

Krugiodendron ferreum Meliola thouiniæ Kyllingia brevifolia Puccinia canaliculata Kyllingia pumila Puccinia canaliculata

Lactuca intybacea

Ľ

Lactuca sativa Cercospora lactucæ Lagenaria leucantha Cercospora cucurbitæ Laguncularia racemosa Meliola lagunculariæ Meliola nigra Mycrothyrium lagunculariæ Physalospora lagunculariæ Lantana sp. Meliola ambigua Lantana camara Diatrypella lantanæ Meliola ambigua Perisporina lantanæ Septoria lantanæ

Lantana odorata Meliola ambigua Lasiacis divaricata Meliola panici Uromyces leptodermus Lasiacis lingulata Uromyces leptodermus Lasiacis ruscifolia Meliola panici Lasiacis Sloanei Asterina fumagina Meliola panici Uromyces leptodermus Lasiacis sorghoidea Cephaleuros virescens Phyllachora graminis Physalospora bambusæ Uromyces leptodermus Leonotis nepetæfolia Lepidium sp. Cercospora lepidii Lepidium virginicum Cercospora lepidii Dimeriella erigeronicola Lobelia sp. Entyloma lobeliæ Lobelia assurgens var. portori-Colletotrichum lobeliæ Lonchocarpus glaucifolius Lonicera japonica Cephaleuros virescens Luffa ægyptica

Luffa cylindrica
Peronoplasmopora cubensis
Lycopersicum esculentum
Bacillus solanacearum
Cladosporium fulvum
Colletotrichum phomoides
Phoma destructiva
Phytophthera infestans
Phytophthora terrestria
Sclerotium Rolfsii
Septoria lycopersici

340

Macrodiscus lactiflorus Meliola furcata Magnolia portoricensis Meliola magnoliæ Malachra rotundifolia Cercospora malachræ Malachra scabra Kuchneola malvicola Puccinia heterospora Mammea americana Meliola paullinæ Mangifera indica Capnodium mangiferum Cephaleuros virescens Colletotrichum gloeosporioides Meliola mangiferæ Pestalozzia guepinia Stilbella flavida Manihot manihot Cercospora cassavæ Cercospora henningsii Microsphæra euphorbiæ Uromyces janiphæ Mariscus jamaicensis Meliola circinans Meliola cyperi

Mayepea domingensis Meliola mayepeicola Meibomia adscendens Dimerium grammodes Meliola bicornis Microsphæra diffusa Meibomia axillaris Cephaleuros virescens Meliola bicornis Uromyces hedysari-paniculati Meibomia barbata Dimerium grammodes Meibomia scorpiurus Microsphæra diffusa Uromyces hedysari-paniculati Meibomia supina Microsphæra diffusa Physopella meibomiæ Meibomia tortuosum Microsphæra diffusa Uromyces hedysari-paniculati Melanthera canescens Sphærotheca humuli Uromyces columbianus Melia azedarach Peniophora galachroa Polystictus pavonius Melothria guadalupensis Uromyces Hellerianus Metastelma lineare Puccinia obliqua Metastelma parviflorum Puccinia obliqua Miconia sp. Lembosia diffusa Monogrammia miconiæ Napicladium fumago

Triposporium stelligerum

Miconia impetiolaris Cephaleuros virescens Meliola melastomacearum Septoria miconiæ

Miconia lævigata
Blastotrichum miconiæ
Borinquenia miconiæ
C'éphaleurcs virescens
Hyalosphæra miconiæ
Meliola melastomacearum
Microclava miconiæ
Phyllachora peribebuyensis
Septoria miconiæ

Miconia prasina
Meliola miconiæ
Phyllachora peribebuyensis
Miconia racemosa

Meliola melastomacearum Miconia Sintenisii

Meliola miconiæicola
Phyllachora peribebuyensis

Mikania sp.
Cercospora mikaniacola
Cladosporium mikaniæ
Meliola compositarum
Septoria mikania

Mikania cordifolia Endophylloides portoricensis

Mikania odoratissima Endophylloides portoricensis

Mikania scandens Puccinia Spegazzini

Mimosa ceratonia Meliola bicornis Ravenelia cæsalpiniæ

Mitracarpus portoricensis Méliola psychotriæ Puccinia lateritia

Momisia iguanea Phyllosticta momisiana Mucuna pruriens
Cercospora mucunæ
Mycosphærella mucunæ
Muehlenbeckia platyclada
Cephaleuros virescens

Musa sp.
Antennularia (?) tenuis

Musa paradisiaca
Fusarium cubense
Fusarium radicicola
Glœosporium musarum
Nectria suffulta
Pestalozzia funerea
Stilbella flavida

Myrcia sp.
Cephaleuros virescens

Myrcia deflexa Cephaleuros virescens Meliola Helleri Triposporium stelligerum

Myrcia splendens Meliola Helleri

Myrica cerifera Meliola manca

W

Nectandra sp. Cephaleuros virescens

Nectandra patens
Cephaleuros virescens
Meliola glabroides

Nephrolepis rivularis Milesia columbiensis

Neurolæna lobata Puccinia synedrellæ

Nicotiana tobacum Ascochyta nicotianæ Bacillus solanacearum Cercospora nicotianæ 0

Ocimum micranthum Sphaerotheca humuli

Ocotea leucoxylon
Cephaleuros virescens
Meliola ocoteæ
Meliola ocoteicola

Olyra latifolia
Asterina fumagina
Dimeriella olyræ
Meliola panici
Puccinia deformata

Operculina dissecta Uredo operculinæ

Oplismenus hirtellus Phyllachora puncta Uredo olyræ

Oplismenus setarius Meliola panici

Opuntia sp. Diplodia opuntiæ Perisporiopsis Wrightii

Opuntia dillenii Septoria fici-indicæ

Ormosia krugii Puccinia ormosiæ

Oryza sativa Cercospora oryzæ Piricularia grisea

P

Palicourea sp.
Meliola glabra var. psychotriæ
Meliola mayaguesiana
Palicourea crocea

Palicourea crocea
Meliola mayaguesiana
Puccinia fallaciosa

Palicourea domingensis

Meliola glabra var. psychotriæ

Meliola mayaguesiana Palicourea riparia Meliola mayaguesiana Puccinia fallaciosa

Panax plumatum Rosellinia bunodes

Pandanus sp.
Colletotrichum omnivorum
Phyllosticta pandanicola

Panicum barbinode Uromyces leptodermus

Panicum fasciculatum Puccinia Huberi

Panicum glutinosum Meliola panici

Panicum laxum Ustilaginoidea usambarensis

Himantia stellifera Otthia panici Phyllosticta panici

Panieum parvifolium Uromyces leptodermus

Panieum tricanthum Hypocrella hypoxylon

Puccinia Huberi

Panicum utowanæum Puccinia Huberi

Parathesis serrulata Meliola parathesicola

Helminthosporium mayaguezense

Myriogenospora Bresadoleana Phyllachora graminis Uredo paspalicola Paspalum fimbriatum
Puccinia levis
Paspalum glabrum
Puccinia substriata
Uredo paspalicola
Paspalum millegrana
Himantia stellifera
Phyllachora andropogonis

Paspalum orbiculatum Puccinia substriata

Paspalum paniculatum
Puccinia substriata
Uredo paspalicola

Paspalum plicatulum
Claviceps paspali
Puccinia levis
Uredo paspalicola

Puccinia substriata
Paspalum secans
Himantia stellifera

Himantia stellifera Meliola panici Puccinia substriata

Phyllachora cornuospora

Passiflora foetida
Helminthosporium Stahlii

Passiflora rubra
Aecidium passifloriicola
Passiflora sexflora

Cercospora biformis Phyllosticta superficiale

Payliosticta superiicia
Paullinia pinnata
Dexteria pulchella
Meliola Hessii
Meliola paulliniæ
Pavonia racemosa
Uromyces pavoniæ

Uromyces pavoniæ Peperomia hernandifolia Uredo piperis Persea gratissima Meliola perseæ Mycosphacrella perseæ Phyllachora gratissima

Persicaria portoricensis Puccinia polygoni-amphibii

Persicaria punctata
Cercospora hydropiperis
Puccinia polygoni-amphibii

Petitia domingensis Olivea petitiæ Septoria petitiæ

Petiveria alliacea Rosellinia hunodes Vermicularia atricha

Phaseolus sp.
Cercosporium beticola
Erysiphe polygoni
Phytophthora phaseoli
Uromyces appendiculatus

Phaseolus adenanthus
Erysiphe polygoni
Uromyces appendiculatus
Zythia phaseoli

Phaseolus lathyroides
Uromyces appendiculatus

Cercospora canescens
Cercospora cruenta
Dimerium grammodes
Isariopsis griseola
Physopella concors
Phaseolus max

Erysiphe polygoni
Phaseolus vulgaris
Bacterium phaseoli
Cercospora canescens
Colletotrichum lindemuthianum

Erysiphe polygoni Isariopsis griseola Phaseolus vulgaris—Cont.

Physarum cinereum
Phytophthora phaseoli
Phytophthora terrestria
Sclerotium Rolfsii
Uromyces appendiculatus

Philodendron krebsii Colletotrichum philodendri Meliola philodendri

Phœnix dactylifera Graphiola phœnicis

Phœnix reclinata Pestalozzia palmarum

Phyllanthus distichus Schræteriaster fenestrala

Phyllanthus grandifolius Schræteriaster fenestrala

Phyllanthus niruri Schræteriaster fenestrala

Phyllanthus nobilis
Accidium favaceum

Physalis sp.
Entyloma australe

Phytolacca icosandra Cercospora flagellaris

Pilea sp. Meliola Earlii

Pilea nummularifolia Meliola Earlii

Pilea parietaria Meliola Earlii Meliola triloba

Pilocarpus racemosus Meliola pilocarpi

Piper sp.

Triposporium stelligerum

Piper aduncum Cercospora portoricensis Meliola gaillardiana Piper aduncum—Cont.

Meliola glabra

Meliola glabroides

Meliola piperis

Piper blattarum

Meliola paucipes

Piper hispidum

Cercospora portoricensis Meliola contorta

Piper macrophyllum Stilbella flavida Piper marginatum

Guignardia pipericola

Piper medium
Cephaleuros virescens
Cyclodothis pulchella
Guignardia pipericola
Meliola tortuosa
Ramularia cylindrosporioides

Piper peltatum
Cercospora portoricensis
Meliola tortuosa

Piper umbellatum
Cercospora portoricensis
Colletotrichum piperis
Meliola tortuosa

Piptadenia peregrina Ravenelia cebil

Pisum sativum Cercospora pisa-sativæ Erysiphe polygoni

Piteairnia angustifolia Diachea leucopoda

Pithecolobium saman Microstroma

Pithecolobium unguis-cati
Colletotrichum erythrinæ
Pestalozzia funerea
Phyllosticta pithecolobii
Phyllosticta pithecolobii var.

monensis

Pityrogramma calomelanos Septoria pityrogrammæ Uredo gymnogrammes

Pluchea odorata
Uredo plucheæ

Pluchea purpurascens Uredo plucheæ

Plumiera alba Coleosporium plumieræ

Plumiera Krugii Coleosporium plumieræ Meliola tabernæmontanæ

Plumiera obtusa Coleosporium plumieræ

Podocarpus coriaceus Corynelia oreophila

Poinciana pulcherrima Pestalozzia funerea

Polypodium sp. Cercospora phyllitidis

Polyscias guilfoylei var. victoriæ

Cephaleuros virescens Nectria episphæria

Portulaca oleracea
Albugo portulacæ

Prescottia oligantha Uredo gynandrearum

Pseudelephantopus spicatus Meliola cyclopoda

Psidium guajava
Cephaleuros virescens
Glomerella psidii
Meliola psidii
Puccinia psidii

Psychotria sp.

Meliola glabra var. psychotriæ

Meliola psychotriæ

Psychotria bertiana Meliola glabra var. psychotriæ

Psychotria grandis Meliola glabra var. psychotriæ

triæ
Psychotria patens
Puccinia fallaciosa
Psychotria pubescens
Meliola glabra var. psycho-

Psychotria uliginosa Stilbella flavida

Q.

Quamoclit. coccinea Coleosporium ipomoeæ

X

Rajania cordata Uredo dioscorea

Randia aculeata
Aecidium abscedens
Meliola psychotriæ
Podosporium pallidum
Rauwolfia nitida

Meliola tabernæmontanæ

Rauwolfia tetraphylla Meliola tabernæmontanæ

Rhipsalis cassytha
Phæospora cacticola

Rhizophora mangle
Anthostomella rhizomorphæ

Synchytrium decipiens

Ricinus communis Cercospora ricinella

Rivina humilis Puccinia rivinæ

Rosa spp. Actinonema rosæ Cercospora rosicola Septoria rosæ Rourea glabra Micropeltis æruginescens Roystonea boringuena Meliola denticulata Rubus sp. Meliola puiggarii Meliola rudolphiæ Triposporium stelligerum Puccinia angustatoides Rynchospora corymbosa Puccinia angustatoides Rynchospora cyperoides Guignardia rhynchosporæ Rynchospora distans Uromyces rhyncosporæ Rynchospora gigantea Cintractia leucoderma Meliola circinans Rynchospora micrantha Uromyces rhyncosporæ Rynchospora setacea Uromyces rhyncosporæ Rytilix granularis

S

Sabicea aspera Uredo sabiceicola

Puccinia levis

Saccharum officinarum Arcyria cinerea Arcvria denudata Arthrinium saccharicola Arthrobotrys superba Aspergillus flavus Aspergillus niger Asterostroma cervicolor Basisporum gallarum Cercospora longipes Cercospora vaginæ Chromocrea gelatinosa Cladoderris dentritica Cladosporium Kerbarum Colletotrichum falcatum Corticium arachnoideum Cyathus peppigii Cytospora sacchari Diplodia cacaoicola Eurotium argentinum Fuligo septica Graphium sacchari Guepinia palmiceps Guepinia spathulata Helminthosporium sacchari Himantia stellifera Hormiactella sacchari Hydnum sacchari Hypocrea rufa Lachnea cubensis Lentinus crinitus Leptosphæria sacchari Lycogala epidendrum Lycoperdon albidum Lycoperdon pyriforme

Saccharum officinarum-Cont.

Marasmius borinquensi

Marasmius Hiorami

Marasmius sacchari

Marasmius synodicus

Melanconium sacchari

Melanconium saccharinum

Merulius byssoideus

Monilia sitophila

Myrothecium verrucaria

Nectria flavociliata

Nectria laurentiana

Odontia sacchari

Odontia saccharicola

Peniophora cinerea

Peniophora flavido-alba

Periconia sacchari

Phyllosticta sacchari

Physalospora tucumanensis

Physarum compressum

Physarum nodulosum

Polystictus occidentalis

Dolaratiotus sangumeu

Rosellinia paraguayensis

Rosellinia pulveracea

Schizophyllum commune

Scirrhia lophodermioides

Sclerotium griseum

Sclerotium Rolfsii

Scytinotus distantifolius

Septonema sacchari

Spegazzinia ornata

Sphaerella sacchari

Sphærobolus stellatus

Stemonitis fusca Stemonitis splendens

Tetracoccosporis sacchari

Tetraploa aristata

Thielaviopsis paradoxa

Trametes nivosa

Saccharum officinarum—Cont.

Tremellodendron simplex

Trichoderma lignorum

Tubercularia saccharicola

Valsa sacchari

Valsaria subtropica

Vermicularia graminicola

Verticicladium graminicolum

Xylaria apiculata

Sabinea punicea

Uromyces sabineæ

Salvia coccinea

Puccinia farinacea

Salvia occidentalis

Puccinia salviicola

Sauvagesia erecta

Meliola gla

Meliola glabroides

Uredo sauvagesiæ

Schæfferia frutescens

Schlegelia

Meliola glabroides var. schle-

genæ

Schlegena brachyantha

Phyllachora nitens

Scirpus lacustris

Puccinia scirpi

Seleria sp.

Meliola cyperi

Scleria canescens Uromyces scleriæ

Scleria cubensis

Puccinia scleriæ

Scleria hirtella

Puccinia scleriicola

Scleria pterota

Phyllachora scleriæ

Puccinia scleriæ

Uromyces scleriæ

Sechium edule
Cercospora sechiæ
Heminthosporium sechiicolum
Phyllosticta sechii

Securidaca virgata Phyllachora perforans

Serjania polyphylla Meliola serjaniæ

Sesamum orientale Cercospora sesami

Sida sp. Cercospora densissima

Sida carpinifolia
Asterina sidæ
Dimerosporium appendicula-

Sida glutinosa Puccinia heterospora

Sida hederifolia Puccinia heterospora

Sida humilis
Puccinia heterospora

Sida procumbens Puccinia heterospora

Sida spinosa Puccinia heterospora

Sida urens

Meliola molleriana

Puccinia heterospora

Simaruba tulæ Meliola glabroides

Smilax sp.
Meliola smilacis

Smilax coriacea

Smilax domingensis Puccinia smilacis

Solanum jamaicense Meliola solani Solanum melongena
Bacillus solanacearum
Cladosporium, herbarum
Glœosporium melongenæ
Phomopsis vexans
Selerotium Rolfsii

Solanum nigrum Cercospora rigospora Solanum persicifolium

Meliola glabroides

Meliola glabroides

Solanum torvum
Aecidium tubulosum
Cercospora trichophila
Cladosporium fulvum
Erysiphe cichoracearum
Puccinia substriata

Solanum tuberosum Alternaria solani Phytophthora infestans Rhizoctonia solani (?)

Solanum verbascifolium Cercospora trichophila

Somidesia lindeniana Cephaleuros virescens

Spermacoce riparia Puccinia lateritia

Spermacoce tenuior,
Puccinia lateritia

Sphenoclea zeylanica Cercosporidium Helleri

Spondias mombin Meliola comocladiæ

Sporobolus indicus Helminthosporium Ravenelli Uromyces ignobilis

Sporobolus virginieus Uromyces ignobilis

Stenolobium stans

Prospodium appendiculatum

Stenorrhynchus lanceolatus Uredo pustulata

Stenotaphrum secundatum Meliola stenotaphri Ustilago affinis

Stigmaphyllon lingulatum Puccinia inflata

Stizolobium sp.

Cercospora mucunæ

Stizolobium aterinium Cercospora mucunæ

Struchium sparganophorum

Synedrella nodifiora
Puccinia synedrellæ

Stilbella flavida Syntherisma digitata

Piricularia grisea
Puccinia substriata

Syntherisma sanguinalis

Tabebuia hæmantha Meliola bidentata Mycosphærella tabebuiæ

Tabernæmontana oppositifolia Meliola tabernaemontanæ

Tagetes erecta

Puccinia tageticola

Tagetes patula
Puccinia tageticola

Tamonea sp.
Hypocrella tamoneæ

Tecoma sp.

Meliola tecomæ

Tecoma pentaphylla Meliola bidentata Meliola tecomæ Prospodium plagiopus Tectaria marteniensis Uredo gymnogrammes

Teramnus uncinatus Cercospora maricaoensis

Meliola bicornis Uredo concors Uromyces cologaniæ

Tetragastris balsamifera Meliola amphitrica

Tetrazygia sp.

Guignardia tetrazygiæ

Phyllachora paribahuyar

Thalia geniculata

Theobroma cacao
Cephaleuros virescens
Colletotrichum Cradwickii
Creonectria Bainii
Diplodia cacaoicola

Nectria colorans Thouinia sp.

Cladosporium hypophloem Thouinia striata

Cercospora thouiniæ Meliola thouiniæ

Thrinax

Helminthosporium spiculiferum

Thrinax ponceana Meliola furcata

Thrinax præceps
Graphiola phænicis
Meliola furcata

Tournefortia bicolor Aecidium tournefortiæ

Tournefortia hirsutissima Aecidium tournefortiæ Meliola longipoda

Tournefortia microphylla Aecidium tournefortiæ Trichilia pallida
Uredo trichiliæ
Trichostigma octandrum
Cercospora trichostigmæ
Linospora trichostigmæ

Triticum vulgare Sclerotium Rolfsii

Triumfetta lappula Pucciniosira pallidula Triumfetta rhomboidea

Triumfetta semitriloba Meliola triumfettæ Phyllosticta Stevensii Pucciniosira pallidula

Turpinia panniculata Meliola guignardi

U

Urechites lutea Phyllosticta glaucispora

v

Vachellia farnesiana
Ravenelia siliquæ
Valerianodes cayennensis
Endophyllum stachytarphetæ
Meliola glabroides

Valerianodes jamaicensis Puccinia Urbaniana Valerianodes strigosa Puccinia Urbaniana

Valota insularis
Phyllachora graminis
Puccinia substriata`
Sphacelotheca panici-leucophæi

Vanilla Eggersii Glomerella cingulata Vanilla planifolia
Cephaleuros virescens
Fusarium solani
Glæosporium (vanillæ) rufomaculans
Pellicularia koleroga

Varronia sp.

Helminthosporium varroniæ
Meliola molleriana

Varronia alba Metasphæria abortiva

Verbena sp.
Sphærotheca humuli

Vernonia albicaulis Argomyces insulanus Argomyces vernoniæ

Vernonia borinquensis Argomyces vernoniæ

Vernonia longifolia Argomyces insulanus

Vernonia phyllostatchya Argomyces vernoniæ

Vicia faba Sclerotium Rolfsii

Vigna repens
Dimerium grammodes
Erysiphe polygoni
Uromyces appendiculatus

Vigna vexillata Hyponectria phaseoli Uromyces appendiculatus

Vigna unguiculata
Cercospora cruenta
Cercospora vignæ
Erysiphe polygoni
Physarum cinercum

Viola sp. Cercospora violæ Gloeosporium violæ Vitex divaricata Ophiobolus barbatus Vitis vinifera Physopella vitis

w

Wedelia lanceolata
Uredo vicina
Wedelia reticulata
Uromyces pianhyensis
Wedelia trilobata
Endophyllum wedeliæ

Willoughbæa sp. Willoughbæa sp

Winterana canella
Meliola thouiniæ
Triposporium stelligerum
Wissadula posiplosifelia

Wissadula periplocifolia Puccinia heterospora

X

Xanthium longirostre
Puccinia xanthii
Sphærotheca humuli
Xanthosoma sagittifolium
Periconia pycnospora

.) **z**

Zamia integrifolia
Triposporium stelligerum
Zea mays
Helminthosporium turcinum
Himantia stellifera
Phyllachora maydis
Selerotium griseum
Uredo pallida
Ustilago zeæ
Zornia diphylla

Puccinia zorniæ

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INDEX TO FAMILIES AND GENERA.

A

	rage.		rage.
Abortiporus		Argomyces	
Acrostalagmus		Arthrinium	
Actinonema		Arthrobotrys	
Aecidiaceæ		Ascobolaceæ	
Accidium		Ascobolus	
Aegerita		Aschersonia	
Agaricaceæ	195	Ascochyta	199
Agaricus	195	Ascodemis	161
Albugo	132	Ascophanus	161
Alternaria	209	Aspergillus	207
Amauroderma		`Asterina	148
Amphalia	195	Asterostroma	183
Antennularia	136	Atylospora	195
Anthostomella	157	Auerswaldia	151
Arcyria	131	Auricularia	183
Arcyricaceæ			
	E	3	
Bacillus	181	Borinquenia	149
Bacteriaceæ	131	Botryorhiza	
Bacterium	132	Botrytis	
Balansia	150	Brachysporium	
Basisporium	210	Bulgariaceæ	
Bertia	153	Burrillia	
Blastotrichum			
	c	;	
Calonectria	149	Chromocrea	150
Campanularis	195	Chromocreopsis	150
Capnodium	136	Chroolepidæ	215
Cephaleuros	221	Chytridiaceæ	132
Cephalosporium	207	Cinnobolus	199
Ceratiomyxa	129	Cintractia	162
Ceratiomyxaceæ	129	Cladoderris	183
Cercospora	210	Cladosporium	215
Cercosporidium	214	Clathrus	19S
Cercosporium		Clavaria	
Cerotelium		Clavariaceæ	
Cerrenella		Claviceps.	
Chlorophyllum		Coccaceae	
Choanephora		Coleosporiaceæ	
			259

	Page.			Page.
Coleosporium	163		Corynelia	
Colletotrichum	201		Coryneliaceæ	154
Coltrichia	_ 194		Craterium	130
Comatrichia	. 130		Creonectria	
Cookeina	. 160		Cribraraceæ	
Cordyceps	. 150		Cryptostictis	199
Coriolopsis	192		Cucurbitariaceæ	
Coriolus	_ 191		Cyathus	199
Corticium	. 184		Cyclodothis	
Cortinarius	. 195		Cytospora	199
		D		
Dædalea	187		Didymiaceæ	130
Daldinia			Didymium	
Dorluca			Dimeriella	
Dematiaces:	209		Dimerina	136
Dendrographium	217		Dimeriopsis	136
Dermateaceæ			Dimerium	
Dexteria			Dimerosporium	136
Diachæa			Diplodia	
Diatrypaceæ			Diplosporium	
Diatrype			Doassansia	
Dictydium			Dothichloe	150
Dictyophora			Dothidiacew	
Diderma				
		E		
Elfvingia	187		Ephelis	204
Elfvingiella			Epichlæ	
Ellisiella			Epicoccum	
Empusa			Epidermophyton	
Endophylloides			Erysiphaceæ	
Endophyllum			Erysiphe	
Endothia			Eurotium	
Entomophthora			Excipulaceæ	
Entomophthoraceæ			Exidia	
Entyloma			A A A A A A A A CONTRACTOR AND	
		F		
Favolus	187		Fuligo	130
Fimetariaceæ			Fulvifomes	
Fomes			Fusarium	
Fomitella				1.
		G		
Galera	. 195		Gibellula	217
Ganoderma	190		Glaziella	151
Geaster	. 198		Glæophyllum	189
Giberella	. 149		Glæoporus	169

261

	Page.			Page.
Glœosporium			Guepinia	
Glomerella			Guignardia	
Gnomoniacem			Gymnopilus	
Graphiola			Gymnopus	195
Graphium	217			
		н		
Hapalopilus	190		Hormiactella	216
Haplographium	215		Hyaloderma	137
Holiomyces	195		Hyalosphæra	149
Helminthosporium	216		Hydnaceæ	186
Helotiaceæ	161		Hydnum	186
Helotium	16.1		Hymenochæte	184
Hemileia	166		Hypochnus	185
Hemitrichia	131		Hypocrea	151
Herpotrichia	153		Hypocreaceæ	150
Hexagona	187		Hypocrella	151
Heterochæte	184		Hyponectria	149
Himantia	219		Hypoxylon	158
Hirreola	183		Hysteriaceæ	160
		I		
Tunicinamus	100		mion	219
Irpiciporus			Illosporium	
Isariopsis			Irpex	
184110[)818	210		Trpex	100
		K		
Karschia	161		Kuehneola	164
Kretzschmaria	158			
		L		
Lachnea	160		Lepiota	196
Lætiporus			Leptosphæria	
Laschia	188		Leptostromataceæ	
Lasiosphæria	153		Leptothyrium	
Laternea	198		Linospora	
Lecanidion	161		Lizonia	
Lembosia	158		Lophiostomataceæ	151
Lentinula	195		Lycogala	131
Lentinus	195		Lycogalaceæ	
Lentodium	195		Lycoperdaceæ	
Lenzites	189		Lycoperdon	198
		M	The second second	
Macrosporium	216		Melanconiaceæ	204
Malassezia			Melanconidaceæ	
Marasmius			Melanconia	
Megalonectria			Melanconium	
	110		Projection	400

	Page.		Page.
Melanomma	154	Milesia	
Melanospora	150	Millisiaceæ	
Melanotus	197	Monilia	
Melasmia	204	Moniliaceæ	
Meliola	137	Monogrammia	208
Melogrammataceæ	158	Monosporium	
Merulius	189	Mucoraceæ	133
Metarrhizium	208	Mutinus	198
Metasphæria	156	Mycoidea	221
Microcera	219	Mycosphærella	155
Microclava	216	Mycosphærellaceæ	155
Micrococcus	131	Mykosyrinx	162
Micropeltis	148	Myriangium	
Microporellus	189	Miriogenospora	151
Microsphæra	135	Myriostieta	147
Microstroma		Myrmæcium	
Microthyriaceæ	148	Myrothecium	219
Microthyrium	148	Myxomycetes	
Midotis	161		
	N		
Napicladium		Nidulariaceæ	100
Nectria		Nigroporus	
Nectriaceæ		Nitschkia	
Nidularia		Numularia	
Ividuaria	199	Numunaria	100
	-		
Odontia		Ophiobolus	156
Oepidiella		Ophionectria	150
Oidium	3.0	Orl ilia	
Olivea		Otthia	
Omphalopsis	197	Ozonium	220
	1	•	
Panellus	197	Pezizaceæ	160
Parodiella	147	Phæospora	
Passalora	216	Phallacee	
Patellariaceæ		Phallus	
Pellicularia	208	Phillipsia	
Penicillium		Phoma	
Peniophora		Phomatacee	
Periconia		Phomopsis	
Perisporiaceæ			
Perisporina		Phyllochiete	
Perisporiopsis		Phyllosticta	
Perisporium		Phymatosphæriaceæ	
Peronoplasmopora		Physalospora	
Peronosporaceæ		Physaraceæ	
Pestalozzia		Physarum	
- Common 1170	206	Physopella	165

Dhatashthana	133	Polystietus	192
Pilobolus		Poria	
Pilobolus		Poronia	
Platysomium		Porospodium	
Pleonectria		Psathyrella	
Pleosporace			
Plicatura		Pseudoperonospora	
Podosporium		Puccinia	
Podostroma		Pucciniace	
Pogonomyces		Pucciniosira	
Polymarasmius		Pucciniopsis	
Polyporaceæ		Pyenoporus	195
Polyporus	189	Pyropolyporus	. 187
	R		
Kamularia	209	Khizopus	133
Ravenelia		Rigidoporus	
Rhizoetonia	220	Rosellinia	
	S		
Saccharomyces		0.1 1.1-	100
		Sphærobolus	
Saecharomycetaceæ		Spherodermatella	
Saccolobus		Sphærostilbe	
Schizophyllum		Sphærotheca	
Schizophyllus		Spicaria	
Schretoria		Spongipellis	
Schreteriaster		Sporormia	
Scirrhia		Sporotrichum	
Sclerotium		Stemonitaceæ	
Scoleconectria		Stemonitis	
Scytinotus		Stereum	
Septobasidium		Sterilemycelia	
Septonema		Stictidacee	
Septoria		Stictis	
Spegazzinia		Stilbaceæ	
Spermædia		Stilbella	
Sphacelotheca		Stilbocrea	
Sphærella		Stropharia	
Sphæriaceæ	153	Synchitrium	132
	T		
Tetracoccosporis	217	Tinctoporia	194
Tetraploa	217	Tolysporella	162
Techophora	163	Trabutia	157
Thelephora	186	Trabutielle	157
Thelephoraceæ	183	Trametes	
Thielaviopsis	217	Tranzschelia	
Tilletiaceæ	163	Tremella	
Tilmadoche	129	Tremellaceæ	

	Page.			Page.
Tremellodendron	186		Tubercularia	
Triblidium	158		Tuberculariaces	
Trichiaceæ	131		Tubifera	130
Trichobelonium	161		Tubulinaceæ	130
Trichoderma	'209		Tylostoma	198
Trichothecium	209		Tyromyces	190
Triposporium	217			
		U		
Uredinaceæ	164		Ustilaginaceæ	162
Uredinales	163		Ustilaginoidea	
Uredo	179		Ustilago	162
Urocystis	163		Ustilina	
Uromyces	175			
		-		
		V		
Valsa	157		Vermicularia	203
Valsaceæ	157		Verticicladium	
Valsaria	157		Verticillium	209
		x		
Xylariaceæ	158		Xylaria	158
			Marie Land	
		Z		
Zignoella	154		Zythia	204
Zygosporium			Zythiaceæ	